



Jeremy O'Neil
Customer Success Manager

1380 Peachtree Industrial Blvd, Ste 200
Suwanee, GA 30024

joneil@ioeducation.com
310.936.5431

A background image showing a teacher and several young students sitting around a table, working on a project. The image is overlaid with a blue and purple gradient.

PROPOSAL

Improving educational outcomes for
St. Charles Parish Public Schools

Prepared for:

Felecia Gomez-Walker
Superintendent

Proposal issued:

March 8th, 2017



Thank you

It's an exciting time to be in K-12 education, as policy, process and technology are coming together to enable your students and staff in ways not possible previously.

I'd like to thank you for the opportunity to provide this proposal to you. Your commitment to seeking out solutions to improve educational outcomes for students, teachers and administrators is what motivates the team at IO Education.

In fact, the only reason IO Education exists is to empower you and other educators across the United States to improve educational outcomes. We believe that data is the cornerstone to achieving your desired goals, but data alone is not sufficient.

To put it simply, data without insights and action is worthless.

That is why we have built the K-12 Data Platform and each of the IO Education solutions to do three things:

1. Break down the silos of data across your vendors and aggregate all of your data, possibly for the first time
2. Create deep and meaningful insights at all levels of your organization - from teachers to superintendents, and
3. Develop personalized plans for student learning, for educators growth and professional development and for your departmental operations.

We share your passion and ongoing commitment to improving all educational outcomes, and are enthusiastic about the opportunity to support and equip you to achieve your goals.

Should you have any questions about IO Education or our proposal, please do not hesitate to contact me or anyone from IO Education.

Sincerely,

Jeremy O'Neil, Customer Success Manager

310.936.5431

joneil@ioeducation.com



March 8th, 2017

St. Charles Parish Public Schools
Attn: Felecia Gomez-Walker, Superintendent
13855 River Road
Luling, LA 70070

Dear Ms. Gomez-Walker,

As a valued IO Education client, we thank you for trusting us this past year as you migrated away from Pearson Inform. We have grown as a company and our platform continues to meet the challenges of the ever-changing K-12 landscape. Through it all, EADMS (now part of our IO Assessment platform) continues to be known for its ease of use, reliability during peak testing times, and having great support.

As we continue to work together and build on our relationship, IO Education is pleased to submit a proposal to St. Charles Parish Public Schools for the Assessment Data Management System RFP.

We are also very excited to introduce you to our Virtual Data Wall that will provide your organization with unique and personalized insights regarding your students' performance and opportunities for growth.

Our focus is to enable you to select and/or create a variety of item types into tests designed to measure understanding and misconceptions related to Louisiana State Standards and to view and act on results via multiple reports.

We meet or exceed all your required needs outlined as "musts" in this RFP and our system also meets all of the items marked "should." Thank you for this opportunity. We look forward to the presentation.

Proposal contact: Jeremy O'Neil
Email: joneil@ioeducation.com

Introduction

IO Education's solutions provide educators at all levels with the tools and insights they need to positively impact student performance and teacher effectiveness. Our integrated assessment and insights platform provides a seamless, user-friendly solution to implement best practices district wide.

We are dedicated to finding ways to deliver effective solutions that match the increasing demands of school districts to track multiple measures to help drive student performance. Our systems are fully customizable and have a proven track record of success.

At IO Education, we improve educational outcomes by empowering teachers and administrators with key insights that drive personalized learning. Different users need to see data in different ways to support action and IO Education has built a unique platform to maximize efficiency and collaboration. We are eager to support your efforts to seed a network of educational innovation to benefit all students and education stakeholders in St. Charles Parish Public Schools.

Student achievement, educator effectiveness and operational efficiency are the three areas we focus on most when it comes to improving outcomes for schools and districts:



Our strategy for improving educational outcomes hinges on a deep understanding of individual student needs. To do this we must gather, securely manage, analyze and act upon data.

IO Education:

1. Measures and monitors student academic performance;
2. Aggregates disparate data easily and efficiently;
3. Creates world-class reporting and learning analytics;
4. Establishes personalized learning plans for each student using custom built forms;
5. Promotes teacher growth through feedback and collaboration.



IO Education solutions meet and exceed the needs of St. Charles Parish. Below is a brief overview of our proposed suite of services.

IO Assessment powered by EADMS

The student assessments solution from IO Education is a comprehensive formative and interim assessment solution that aligns with district and state standards, including LA standards.

The assessment module, powered by the EADMS platform, allows you to create, deliver, score and analyze a wide variety of exams, including placement, formative, interim / benchmark, summative and physical fitness tests. With the integrated K-12 Data Platform, schools and districts can finally diagnose strengths and weaknesses in standards mastery of individual students, schools and districts.

IO Insights

The student Insights solution from IO Education is the best way to improve strategic alignment, efficiency, accountability, cycle times and forecasting in your district and schools. By breaking down data silos and aggregating data into the K-12 Data Platform, each user - from teachers to district administrators - now has access to the right data at the right time. From our unique Virtual Data Wall that analyzes all types of student data, to Metric capabilities that support Early Warning systems, to student intervention plans and custom reporting, IO Insights is uniquely suited to support SCPPS educators in gathering data into one place to monitor progress toward academic goals. IO Insights demystifies data around student achievement so that everyone can help drive growth and improvement.

The forms functionality included within IO Insights allows for customizable forms that collect information, observations and evidence. There is robust work-flow functionality with digital signatures and approvals. Performance Plans can be built from templates and assigned to individuals or teams to facilitate collaboration. The forms and format of these templates can include simple text, check boxes, multi-select, rubrics, multi-stage digital-signature workflow, etc. Users can also add comments to a form and evidence to the Evidence Board to support interventions efforts. All forms and plans can be printed and exported. This module is not priced separately. The features and functions are described in the context of each module proposed.

Optional Modules and Services available to provide a comprehensive data school performance management platform.

IO Talent

IO Talent is a flexible educator evaluation system that was created to meet district requirements and can be fully customized to meet SCPPS's specific needs. IO Talent can help schools and districts develop robust insights on staff and teaching methods by combining quantitative and qualitative observational data with comprehensive local and district data on student growth measures. The educator evidence portfolio and educator portal will allow your staff to view and collaborate on professional development plans and growth.



IO Operations

IO Operations is a comprehensive operations evaluation system. This module allows each functional area within district operations to define operational goals, observe and measure progress, evaluate progress longitudinally and manage improvement plans. IO Operations helps districts develop robust insights on your most important operations, including: food service, transportation, facilities, school safety, IT, athletics, etc. Pricing within Operations allows for modular implementation. Pricing is by department.

Summary

IO Education is the only solution that connects local, state, and national assessments, secure data management and dynamic, intuitive analytics tools with a complete performance management system to promote both student and teacher growth. Educators at all levels of the district can quickly gain insight with their data and, in the same platform, group and assign students to learning plans to help create a comprehensive evidence based portfolio.

Company History

In 2015, Longleaf Solutions, LLC, and CaseNEX, LLC combined to form IO Education, which today provides a comprehensive data solution to over 7,500 schools across the country. The merger brought together both companies' highly complementary product portfolios, including [BaselineEdge](#), [DataCation](#), and the research-based Phonological Awareness Literacy Assessment (PALS) to become the leading provider of student data analytics, classroom management, teacher professional development and parent communication solutions. The integrated platform enables teachers, school district administrators and parents to effectively monitor student achievement and address academic performance gaps.

Driven by its mission to improve educational outcomes, in 2016 IO Education merged with the Educator's Assessment Data Management System (EADMS), a leading provider of K-12 assessment and data management software. This merger shines a spotlight on using assessment data to drive student growth; it offers educators' access to an extensive array of assessments, items, and assessment-specific capabilities while at the same time offering the use of powerful student data collection, management, and analysis tools. EADMS will be primarily referred to as IO Assessment throughout the proposal.



1. Cost

Supply the cost of the product, services, etc. on the Assessment Data Management System Cost Summary Form for year 1 and the recurring costs for two subsequent years. The costs submitted must be valid for at least 90 days from the due date.

In addition to the summary form, provide a detailed narrative with a breakdown of the costs associated with the project. Be sure to include all costs associated with successful implementation and management of the project. Missing or hidden cost will lower your score, when the proposals are evaluated.

Provide information regarding your company's service assurance. If available, include your service level agreements. **(Please see general MSA here: <https://ioeducation.com/terms-of-service/> and see attachments for general TOS)**

Include refund amounts or percentages due to non-performance.

Non-performance is defined as either not successfully completing an action step or not completing the action step within the time allocated.

If an item is E-rate applicable, then state the category and the SPIN number(s) that your company uses in Louisiana.

The current partnership for 2016-17 school year includes IO Assessment (EADMS), Measured Progress Item Bank and one day of Professional Development.

The current 2016-17 contract totals \$30,225.50.

The proposal for 2017-18 for the Assessment Data Management System includes the renewal of both IO Assessment (EADMS) and the Measured Progress Item Bank as well as the addition of the IO Insights Student Analytics and Performance Management module.

The Annual Subscription of the integrated assessment and data management solution as described in the proposal is priced at \$7.00/student. The assumed student enrollment for the assessment service remains the same as 2016 for 4,186 students with IO Insights calculated against total enrollment of an estimated 9,219 students.



The Year 1 Cost is calculated as follows;

Service	Description	Quantity	Units	Unit Cost	Discount	Total
IO Assessment	Annual Subscription (EADMS renewal)	4,186	Students	\$ 3.75	-	\$ 15,697.50
Measured Progress	MP Item Bank* (renewal)	4,186	Students	\$ 3.00	-	\$ 12,558.00
IO Insights	Annual Subscription Analytics	9,219	Students	\$ 5.00	\$ (1.75)	\$ 29,961.75
Installation	20% of yr 1 subscription cost	1	YR1	20%	25%	\$ 4,494.26
Onsight PD	Full-day onsite Professional Development	4	Day	\$ 2,000.00	50%	\$ 4,000.00
Webinar PD	1-Hour Webinar Professional Development	4	Webinar	\$ 250.00	100%	\$ -
				Total Yr 1	\$ (22,631.34)	\$ 66,711.51

There is an Implementation Fee charged in the initial term (July, 2017- June, 2018) that is equal to 20% of the annual subscription fee for the initial term. This fee is only applied to the IO Insights yr 1 subscription and is discounted 25% because IO Education is already working with the SCPPS SIS files and some data files. Existing assessment data from EADMS from 2016-17 will be automatically included in the analytics platform.

It is assumed SCPPS wishes to continue with the Measured Progress Item Bank. However, IO Education has partnerships with other content providers like Fluence, KDS Inspect and TE21. Use of other item banks could represent a significant cost savings. The district may also wish to add to available content instead of replace. IO Education would like to discuss options with SCPPS and provide a separate content proposal if desired.

IO Education recommends four days of onsite professional development and four 1-hour webinars. IO Education offers 2 of the onsite days and all 4 webinars at no charge to the district.

In years 2 and 3, SCPPS will only be charged for the annual subscription fees for IO Assessment, IO Insights and the content subscription. IO Education offers 2 full days and two 1-hr webinars at no cost in each of the year 2 and year 3 terms.

Service	Description	Quantity	Units	Unit Cost	Discount	Total
IO Assessment	Annual Subscription (EADMS renewal)	4,186	Students	\$ 3.75	-	\$ 15,697.50
Measured Progress	MP Item Bank* (renewal)	4,186	Students	\$ 3.00	-	\$ 12,558.00
IO Insights	Annual Subscription Analytics	9,219	Students	\$ 5.00	\$ (1.75)	\$ 29,961.75
Onsight PD	Full-day onsite Professional Development	2	Day	\$ 2,000.00	100%	\$ -
Webinar PD	1-Hour Webinar Professional Development	2	Webinar	\$ 250.00	100%	\$ -
				Total Yr 2	\$ (20,633.25)	\$ 58,217.25
				Total Yr 3		same as above

Additional training and professional development is available at the stated price if requested by the district.



2. Project Minimums

Describe how your product/service aligns with the project minimums. The project minimums were determined from feedback of features from stakeholders, including school and district administrators, teachers, technology and curriculum and instruction staff. Notice that the project minimums say must, should, or could. All project minimums that say “must” or “should” need to be answered. If the project minimum says could, a response may be submitted for consideration but will not be scored. All “must” and “should” responses will be scored. If the product does not meet all “must” project minimums, it will be eliminated from consideration.

- The system must have the capability to upload and maintain students, courses, sections teachers and staff to the system from SIS (currently PowerSchool). This may be embedded or through a service. If through another service, this upload should be supported by the vendor. Automated update of SIS data must be in a timely fashion.

Confirmed. The IO Education Platform has the capability to upload and maintain students, courses, sections teachers and staff to the system from SIS (currently PowerSchool). This may be embedded or through a service. If through another service, this upload is supported by IO Education. In most cases, automated updates of SIS data is nightly and can be more frequently depending on the capabilities of the SIS provider.

IO Education fundamentally believes that St. Charles Parish Public Schools owns the data and we are stewards of that data. We believe that all vendors in the data ecosystem have a responsibility to the educators and students to make the collection, storage, access and exchange of data as secure and efficient as possible.

IO Education dedicates the necessary resources to each district partnership to facilitate the acquisition of district data needed to support informed instructional decisions. Even in circumstances where the host system is not intuitive or proves too difficult for district staff, IO Education has worked side by side with the district to find and document the most effective way to capture the desired information.

IO Education has worked with many districts who use Powerschool. We have attached an example document that demonstrates the process for one such district to access and extract their data from Powerschool. We commit to working with SCPPS to access, upload and securely maintain your district data.



Technology in the K-12 market is very specialized. Although districts have a huge volume of student data covering all aspects of its students' performance, it is oftentimes spread out, in silos and very difficult to manage and bring together. It is for this reason that IO Education contains a full-featured data integration and ETL solution platform. Data integration is at the core of everything we do at IO Education. We must make sure that we can connect with every relevant data system and source that the district has in place to bring together a holistic view. In typical projects similar to this one, we have integrated up to 20 different system sources from:

- Student Information Systems / PowerSchool (student demographics, traits, attendance)
- Discipline Data
- School and Student Schedules
- Course Grades and progress towards EOC and graduation requirements
- Assessment data
- Progress monitoring and intervention data
- Educator Effectiveness data
- Staff Data
- District financials
- Operational data (Food service, transportation, finance, operations / maintenance)

At the core of this functionality is our ETL management platform. This purpose built K-12 data integration solution allows IO Education to configure integration packages based on exported data provided by SCPPS. We typically work with excel, CSV or delimited text files and setup an integration "map". This map will match the fields provided with our data warehouse structures to properly map, translate and import in the data. Built into this platform for each type of data being integrated are data quality checks. We have extensive business rules that check the incoming data to make sure that it is consistent, has relational integrity and of the highest quality. These data quality checks are critical to ensure that the data that we bring into the IO Education platform is correct.

These ETL packages once setup are automated and scheduled. A cloud-based services architecture will continually check for incoming files provided by the District. Once a new file is found, the ETL platform will process it, run through all data quality checks and import the data. Our ETL technology goes through 5 best practice phases to ensure the highest quality. The image below outlines these phases and what happens in each phase. This architecture is based on the very best data warehouse and ETL processes.





As the data is integrated, the IO Education ETL platform performs all necessary logging throughout the process so the IO Education staff can go back and see exactly what was done. We also have a notification engine built into the ETL platform that will send email notifications to interested managers at IO Education and/or at the District to provide information as ETL packages are completed. In short, the IO Education ETL platform is a full-featured complete and comprehensive data integration solution that will allow IO Education to integrate all of SCPPS existing data assets. This is at the core of what IO Education does every day

- The system must store and maintain assessment for both formative and summative assessments. Assessments include, but not limited to, state assessments (ie, LEAP 2025, EOC), national assessments (ie, ACT, CollegeBoard AP), local assessments (ie, benchmark, diagnostic, unit tests), teacher made assessments.

Confirmed. The IO Education platform stores and maintains assessment data for both formative and summative assessments. Assessments include, but not limited to, state assessments (ie, LEAP 2025, EOC), national assessments (ie, ACT, College Board AP), local assessments (ie, benchmark, diagnostic, unit tests), teacher made assessments.

IO Education will provide regular import of external data, as well as additional data sets identified by St. Charles Parish as needs change. We import external data, often assessment data, in several ways,

as long as the data extract includes the local or state student identifier for each student. Using the applicable integration method, we determine data endpoints.

- The system must provide web-based access for the teachers and administrators to view and disaggregate student assessment results. The software/service should generate secure logins from data in student information system.

Confirmed. The system provides web-based access for the teachers and administrators to view and disaggregate student assessment results. The software/service generates secure logins from data in student information system.

IO Education's implementation of a role based permission system allows for the assignment of roles and permissions based upon dynamic metadata about users that is derived from remote identity providers and external authentication systems. IO Education has developed systems whereby organizational groupings of schools and regional networks can be developed. Standardized roles, with related access control permissions, can then be defined and applied to user accounts to allow only the minimum required number of users to access data on students and/or application functions that map to the grouping to which they are assigned without impacting the entire user group.

The IO Education identity management policies provide robust security to ensure the protection of sensitive data like passwords and PII. These policies include:

- Enforcement of a one user, one account policy. IO Education does not allow shared, group or duplicate accounts.
- Production environments free of testing, development and non-production accounts.
- Enforcement of a strong password policy.
- Storing of all passwords using bcrypt, a key derivation function for passwords designed by Niels Provos and David Mazières, based on the Blowfish cipher. Besides incorporating a salt to protect against rainbow table attacks, bcrypt is an adaptive function: over time, the iteration count can be increased to make it slower, so it remains resistant to brute-force search attacks even with increasing computation power.
- Logging of all successful and failed authentication attempts, including date, time, IP address, and username.
- Secure resetting of passwords including a one-time-use password link that expires after a limited number of hours.
- Automatic de-provisioning of accounts for terminated employees.
- Temporary locking of accounts with repeated failed login attempts and providing support to affected users.



IO Education offers a flexible design in regards to authorizing users to the application itself and controlling what data and student plans that users can see. This multi-level security system is data driven and is typically driven from the teacher-student connection through courses and sections defined by the SIS. If a teacher logs into the system, they will only be able to see their student's data and plan. An administrator has full control to override the defaults by setting definable "teacher permissions" as well as detailed control on student learning plans.

Teachers, by default, have access to the students that are in their classes, which is determined by schedules imported from the SIS. Users can be granted access to additional students if desired. This additional access can be granted through the interface with Powerschool, or through managing the rights within the IO Insights application. An additional feature allows users to subscribe to certain reports that will automatically email "push" the data to their inboxes through PDF, HTML, or links to the reports or dashboards. The IO platform provides "the right data to the right people at the right time."

IO Education will provide secure, personalized data portals for educators with specific interfaces dependent on their needs. Each user has the ability to configure his/her own page to view snapshots of information they desire to see. For example, district administrators can configure their landing page to display dashboards of High School Math, Science, ELA and Attendance. Similarly, all users can modify their landing page settings to display configurable dashboards, graphs and data when they first log in.

St. Charles Parish teachers, specialists, counselors, principals, program or district administrators, students, and parents have varying needs and our application allows them to configure their own dashboards to display important charts and graphs. Principals quickly want to see number of students on or off track for graduation or current grade point averages by department. Teachers want specific student information, attendance, assessment results, early warning indicators and academic standards information. Administrators and district level educators want a more aggregate level view with drill down options across cohorts and specific data sets. The application's personalized Dashboard page presents snapshots of relevant detail available for analysis, drill-down, and export.

All system access will be provided through exclusive use of the identity management services provided, integrated with Powerschool SIS or the district's Active Directory. All requests for authorization to the application will be logged by the system, whether allowed or disallowed. This logging information will be made available to the auditing system for system administrators to report on both authorized and unauthorized access attempts.

Furthermore, using data segmentation based upon the SIS Data Roles, only those users that are within the specific schools and districts, as well as assigned the fine-grained access control



permissions to view student data will be able to see those student profiles. The system will also honor linkages between specific teachers and school staff and groups of students, such that school staff will only be able to report on and/or interact with students to which they have been intentionally assigned.

IO Education, in partnership with SCPPS staff, will define our Role-Based authentication model to incorporate each use case. Currently, our system accommodates authorization and student data access for students enrolled in multiple locations, teachers assigned to multiple locations and parents with students in multiple locations.

At IO Education, the privacy and confidentiality of student data and the standards that support that privacy and confidentiality are of utmost importance. Any technology solution developed, implemented and maintained by IO Education is fully compliant with State and Federal law. IO Education ensures that all sites and technology developed fully adhere to FERPA, COPPA, and PPRA regulations. All of IO Education's solutions leverage a role-based architecture designed to specify user access and permissions.

Role-Based Access Permissions System

The role-based architecture assigns each user to a specific role within the site that will intentionally limit features and functions, as well as corresponding data available to that user. If users are not authorized to view certain pages of the portal, the user account will be locked, an alert transaction will be logged to the audit trail, and a system administrator will be notified.

Individual Accountability

All usernames and passwords are associated with both a unique email address and specific user profile. Email addresses are verified using a token-based approach to account activation. All automated password reset functionality is then tied to the activated email address for each user account. All user accounts in IO Education developed web sites are assigned an internal globally unique identifier (GUID). IO Education will map our established processes for individual accountability to the data and integration approach used by each SIS for user authorization and authentication.

Session Management and Timeouts

IO Education will implement security controls for the platform that warn a user of a session timeout due to inactivity. IO Education's proposed timeout windows are based on industry best practices and IO Education's history of working in environments that must protect sensitive student data.



Unsuccessful Logins / Unauthorized Access

Our Role-Based Authentication Model will prevent unauthorized user access to the IO Education Dashboard application and user data. Any and all attempts to access the system with failed credentials will be appropriately logged in the audit trail of the system. Users that fail authentication more than five times in a ten minute period will have their accounts locked. The account lock will be logged in the appropriate audit trail, and the appropriate administrator and customer service manager will be notified.

IO Education will work with the SCPPS Identity Management and Access Control Integration Lead to develop a detailed Role-Based Authentication Model as we have done in other deployments.

- The system must allow the user to scan, manually enter/edit and import assessment results.

IO Education delivers a web-based system that can be accessed by users anywhere, anytime, and from any internet-connected device. Importantly, our technology solutions are uniquely capable of integrating with existing school technologies because they employ a flexible, standards-based, service-oriented architecture (SOA):

- Cloud based infrastructure supporting Internet as a Service applications with unlimited scalability of virtual machines;
- Comprehensive data warehouse built using industry-standard data models, and in anticipation of emerging initiatives;
- Flexible Extraction, Transformation and Loading (ETL) tools for the acquisition, cleansing, normalization, matching and organization of data from disparate sources;
- Holistic set of APIs to blend first and third party software applications;
- Portal framework, Identity Management and Role Based Permissions Model built upon a core set of API's; and
- Flexible approaches for third party technology solutions to plug into the web portal by leveraging a set of API methods and framework for access to shared data and services.

With interoperable technology architecture, SCPPS can integrate third party technology into a single environment. This supports critical mass around a repository of resources aligned to programmatic success. IO Education has deep experience collaborating with partners to execute comparable multi-party integration and implementation strategies. As best practice for any integration project, IO Education recommends a collaborative discovery exercise with St. Charles Parish to:



- Inventory all existing school technologies that are proposed for integration; and
- Prepare a roadmap that identifies the appropriate integration methodology for each existing technology.

Technology integration may be completed through a variety of approaches, including single sign-on (SSO), API integration, and third party plug-ins. Additionally, SCPPS may consider embedding discrete functionality components within a larger environment. For example, specific IO Education functionality may be integrated within external or, functionality from an external application may be plugged in to IO Education's framework.

IO Education's data integration methodology facilitates both automated and ad-hoc processes and can be configured to meet the operational and policy needs of our partners. In all cases, data is managed through a multi-stage import workflow using automated tools and business processes:

- Web-based data loading interface;
- Field mapping utility to support ETL;
- Standalone data-loader client software;
- Web services data-loading API;
- Import job scheduler;
- Validation rules engine;
- Robust error reporting with end-user corrective instructions;
- Separate validation service/API;
- Online import/validation history with downloadable success/error files; and
- Emailed validation reports with load summaries.

Depending on the technology framework supporting the SIS (Powerschool) and other warehousing systems, IO Education will execute a rigorous discovery process to implement a best-of-breed integration solution based on proprietary code and database connectivity standards. This process includes, but is not limited to, the following discrete tasks:

- Develop Extracts;
- Extract Unit Testing and Validation;
- Extract Defect Remediation and Retesting;
- Conduct Data Load(s);
- Review Data Load(s) / Validation Output / Error Log(s);
- Update Interface Documentation; and
- Deliverable Review and Acceptance.



IO Education is able to work with your district's operational data sets and act responsively to future data sets. We provide daily import of SIS transactional data sets, having flexible specifications for all required integration data.

Below details the IO Education process used to import external data, which is often assessment data. We can do this in several ways, as long as the data extract includes the local or state student identifier for each student. Using the applicable integration method as stated above in our Data Integration Procedures, we determine data endpoints.

Import method 1: Items included

The Dashboard can accept assessment items aligned to state or local standards, which allow teachers to target specific areas for student improvement. It also helps administrators to group teachers struggling with teaching certain standards together with a teacher who has mastered delivery on a particular standard or group of standards for improved instructional design of professional development.

Import method 2: Imported in parts

If assessment data is available with the summary by parts, our platform can accept and display the individual part scores, only with the total score. For example, the SAT exam can be pulled in parts, Critical Reading, Math, and Writing (as long as it offered) and displayed as such. Additionally, exams that are reported without items but provides benchmark or standards breakdown will be able to be imported in parts, not just overall score.

Import method 3: Only final score imported

When assessment data is only available with a final score, IO Education will display this final score.

Below are two screenshots of a sample AIMSWeb report. The first displays the menu, showing a variety of filters available, including the parts of the exam, year, grade level, as well as by individual teacher and user-created Student Groups.



AIMSweb report Assessment Final Score Import Menu

AIMSweb Report

All Greece Central Schools

Exam Year: 2014 x

Grade Level: 1 x

LNF - Letter Naming Fluency x

M-CAP - Mathematics Concepts and Applications x

MAZE - Reading Comprehension x

LSF - Letter Sound Fluency

M-COMP - Math Computations

MNM - Missing Number

NIM - Number Identification

NWF - Nonsense Word Fluency

OCM - Oral Counting

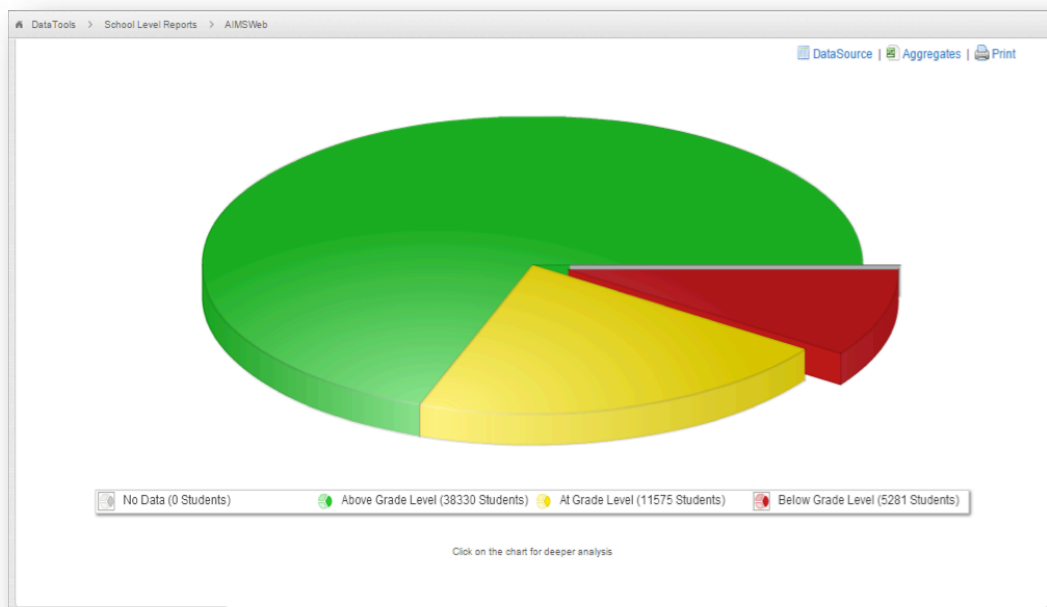
PSF - Phoneme Segmentation Fluency

QDM - Quantity Discrimination

R-CBM - Reading Based Measurement

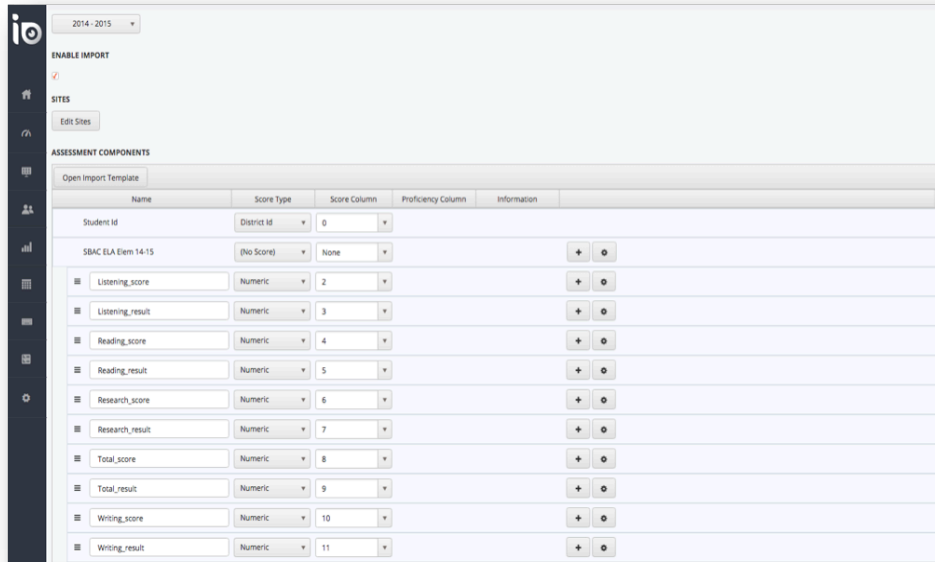
1

AIMSweb report Assessment Final Score Import Chart



Assessment data can be setup to be integrated on a nightly basis, imported by the user using a template-based assessment import tool, or scores keyed directly into the system through a local assessment data management feature. IO Education has experience working directly with providers who have established and well documented APIs. IO Education has experience working with data from third party providers, including but not limited to, the following: state assessments, ACT, SAT, College Board AP, MAP, SRI, DIBELS, Running Record, etc.

Assessment Import Template



2014 - 2015

ENABLE IMPORT

SITES

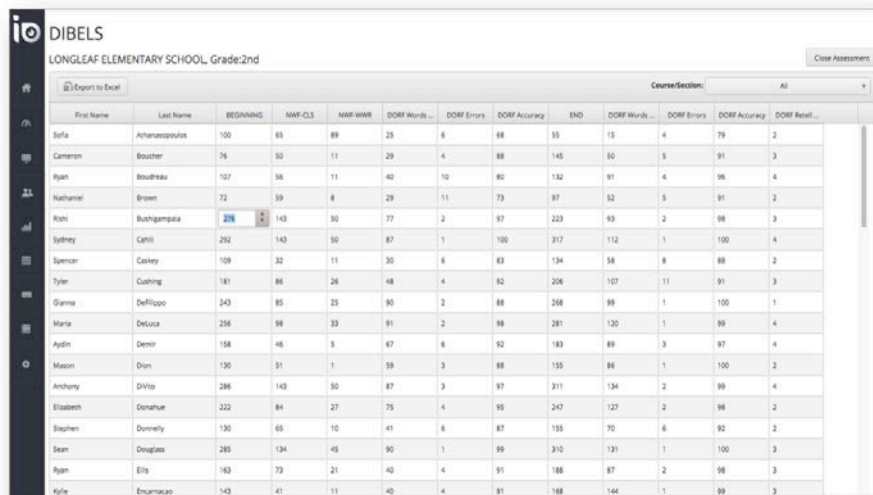
Edit Sites

ASSESSMENT COMPONENTS

Open Import Template

Name	Score Type	Score Column	Proficiency Column	Information
Student ID	District ID	0		
SBAC ELA Item 14-15	(No Score)	None		
Listening_score	Numeric	2		
Listening_result	Numeric	3		
Reading_score	Numeric	4		
Reading_result	Numeric	5		
Research_score	Numeric	6		
Research_result	Numeric	7		
Total_score	Numeric	8		
Total_result	Numeric	9		
Writing_score	Numeric	10		
Writing_result	Numeric	11		

Assessment Score Manual Entry



DIBELS

LONGLEAF ELEMENTARY SCHOOL, Grade:2nd

Export to Excel

Course/Section: All

First Name	Last Name	BEGINNING	NWF-CLS	NWF-WWR	DORF Words	DORF Errors	DORF Accuracy	END	DORF Words	DORF Errors	DORF Accuracy	DORF Rate
Sofia	Achaneopoulos	100	65	89	25	6	88	55	15	4	79	2
Cameron	Boucher	76	50	11	29	4	88	145	50	5	91	3
Ryan	Boudreau	107	56	11	40	10	80	132	91	4	96	4
Nathaniel	Brown	72	59	8	29	11	73	97	52	5	91	2
Rishi	Bushigampala	206	143	50	77	2	97	223	93	2	98	3
Sydney	Caill	252	143	50	87	1	100	317	112	1	100	4
Spencer	Ceskey	109	32	11	35	6	83	134	58	8	88	2
Tyler	Cushing	181	85	26	48	4	92	206	107	11	91	3
Gianna	DeFilippo	243	85	25	90	2	88	268	99	1	100	1
Maria	DeLuna	256	98	33	91	2	98	281	130	1	99	4
Pydin	Demir	158	46	5	67	6	92	183	89	3	97	4
Mason	Dion	130	91	1	59	3	88	155	86	1	100	2
Anthony	Dittus	286	143	50	87	3	97	311	134	2	99	4
Elizabeth	Donshue	222	84	27	75	4	95	247	127	2	98	2
Stephen	Donnelly	130	65	10	41	6	87	155	70	6	92	2
Sean	Driglass	285	134	45	90	1	99	310	131	1	100	3
Ryan	Ellis	163	73	21	40	4	91	188	87	2	98	3
Kyle	Encarnacion	143	41	11	40	4	91	168	144	1	99	3

IO Education will provide data entry and import of local data sets (at district, school, and teacher level). The IO Insights platform allows users to upload assessment scores from any Excel spreadsheet. The uploaded results can then be used in the Virtual Data Wall. Users have the option of importing all columns of the assessment file, or manually adding select values. Users can also use the template to set proficiency levels for quick identification of academic status. Administrators will be assisted with these tasks by the IO Education implementation team.

Assessment Template Proficiency Levels

AIMSWEB - Proficiencies

Grades:

2

Add Proficiency

Name	Min Score	Max Score	
Very Low	0	10	
Low	11	25	
Average	26	75	
High	76	90	
Very High	91	99	

DONE

- The system could include the ability for the assessment results to come from an online assessment application as either a part of the system or through a third party. If the system has online assessment capability, please describe the following:

- o test banks
- o ability to modify and add questions
- o user management
- o test session creation and management
- o rubrics
- o tracking partial mastery or partial credit
- o creation of items/test banks that includes technology enhanced items

Item Creation, Assessment Creation, Test Administration, & Data Collection

Confirmed. IO Assessment (EADMS) has developed one of the most advanced and comprehensive assessment solutions providing educators the flexibility for both online and paper administrations. Districts can build online assessments using a variety of 21st century item types, including drag-and-drop, table-matching, multiple-correct, rubric-based items, and much more. Students can log-in to online assessments from tablets, laptops and desktops.

The Assessment System provides St. Charles Parish Public Schools the following:

- Unlimited Local Assessments created to track student performance and inform instruction
- Assessments and test booklets created directly in IO Assessment
- Full-featured local item authoring capability
- Integrated local, state and Common Core Item Banks, Mini-Assessments, Interim/Benchmark Assessments, and Performance Tasks
- Assessments administered either online or via paper scan sheets
- Administration utilities provide an efficient means to schedule and control testing
- Support for Common Core Standards built-in, including technology enhanced items with advanced response interaction types
- Full-featured student online testing platform delivered via HTML 5 browser and in secure kiosk mode (Android)

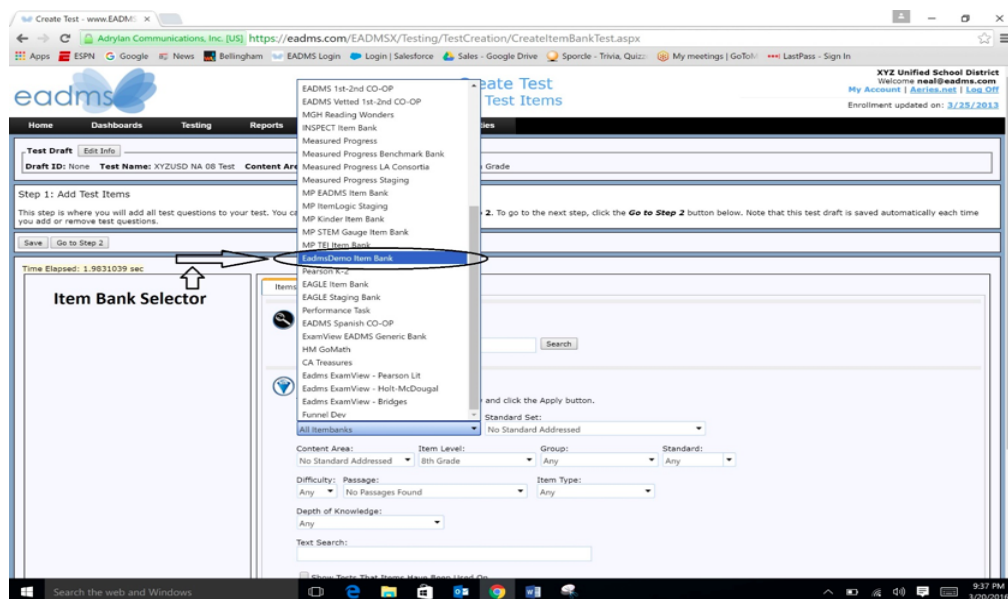
The platform can support technology enhanced items and includes the ability to search for test items based on standards, domain/strand, DOK, item type, and key word. Additionally, IO

Assessment recently released advanced testing accommodations to support students with special needs.

IO Assessment users can create local assessments using either a Content Item Bank (Vendors) or Test Keys (Answer Keys). Either method allows users to easily create tests for either online or paper/pencil delivery. Regardless of test type, users will find they can create a test and have it ready for delivery in a few simple steps. See illustrations below.

The IO Assessment platform supports assessment creation, scoring, analysis, and reporting of locally-developed assessments.

Create a Test



Create Test: Add Test Items

Create Test > Add Test Items

Save Go to Step 2

[Edit Info](#)
 Draft ID: None Test Name: BPS Demo_2016 CCSS ELA GR 3 Bench 1 Content Area: CCSS ELA Test Level: 3rd Grade

This step is where you will add all test questions to your test. You can reorder items and preview the test on the next page. To go to the next step, click the [Go to Step 2](#) button. Note that this test draft is saved automatically each time you add or remove test questions.

Time Elapsed: 0.9394901 sec

▼ Skill Area Summary

▼ Standard Summary

▼ Passage Summary

▼ Item Summary

Items

Performance Tasks

▼ Search

Item ID:

Local ID:

Search by ID

▼ Filters

Item Bank:

Standard Set:

Content Area:

All Itembanks

Common Core State Standards

CCSS ELA

Item Level:

Group:

Standard:

3rd Grade

Comprehension and Collaboration

LA.3.SL.3.2

▼ Advanced Options

To filter items, select the desired filters below and click the Apply button.

Text Search:

Search by Text

Item Type:

Passage:

Depth of Knowledge:

Any

How Crayons are Made (22 wo

2. Basic Skills & Concepts

Any

Constructed Response

Multiple Choice (MC)

Multiple Select (MS)

Inline Dropdown

Highlightable Text

2 Part ESSR

Drawing

Autoscore Constructed Response (TECR)

Equation Numeric (EQ)

Drag And Drop (Hot Spot)

Table Matching

Ordering

Used On

Show Only Items Without Passages

Show Only Items With Resources

Show Item Analysis Information

Apply Filters

After tests have been created, users can manage the scheduling of their assessments from the Manage Test feature. Here, users can edit test information, quarantine test items, schedule the test individually, by site, or by district, select cutpoints/performance levels, etc. Proctor based scheduling (session id) is defaulted so test are locked until teacher gives access to the session id.

Manage Tests: Control Panel

Manage Tests > **Control Panel**

[Copy Test](#)
[Upload / Delete PDFs](#)
[Preview Test Materials](#)
[Delete/Retire](#)

[Change Test](#)

General Information

[Edit General Info](#)

Test Name: CCSS ELA 12 Benchmark #3
Test ID: 205898
Content Area: CCSS ELA
Test Level: Grades 11-12
Questions: 7

Status: Final
Short Name: 12ben#
Date Created: 2/2/2015
Created By: jenniferg
Notes:

Items Quarantined: No [Change](#)
Multiple Versions: No
Show State Item Weighting on Reports: [View/Edit](#)
Owner: adryan [Change](#)
Who can manage this test?: 2 Users [Change](#)

Administrations

A PDF Booklet has been uploaded for this test. Before printing any test materials, please make sure that the PDF Booklet matches the test key below.
EADMS is not responsible for making sure that the PDF Booklet matches the key.

[Schedule Test](#)

	Name	Start Date	End Date	Who Can Print / Administer Test	Scans	Online	Admin Type	Test Materials	Tools
Edit 5376	Benchmark 70%	2/1/2015	3/9/2016	Change Teacher level users, 2 Explicit Users	0	646	Both	Window Closed	Preview Online Test Rescore
Edit 6187	Cutpoint set 2	6/1/2015	6/30/2016	Change The Owner	0	0	Both	Window Closed	Preview Online Test Rescore
Edit 6195	sample	7/25/2016	7/29/2016	Change Only me	0	0	Both	Print Materials	Preview Online Test Rescore

[Input/Edit Windows](#)

[Categories](#)

[Cutpoints](#)

[Items](#)

Online Administration

IO Assessment (EADMS) offers the ability to take assessments online, paper and pencil, and through plain paper scanning. Our platform has a full-featured student online application that can render QTI normal and advanced interaction types. It includes a suite of tools for engaging students during testing (such as highlighting, flagging, test progress indicator, and testing results, etc.). The Student Online Testing App can be accessed via any HTML 5 compliant browser or in kiosk mode supporting secure operation using Android (Chrome Books) devices.

The online testing platform is compatible with mobile devices including Microsoft Surface, iPads, Chromebooks, and Android devices. IO Assessment can be used with all device types, and with all types of screen sizes. Our platform will automatically format to any screen. In addition, IO Assessments can be accessed using all current browsers, Chrome, Safari, IE (updated versions), and FireFox.

Advanced Test Accommodations

IO Education recently released advanced testing accommodations that reflect the tools and accommodations seen in high stakes state tests. These can be set to support the needs of an individual student or set for a particular assessment for all students. These accommodations



enhance the tools that were already available such as highlight text, calculator, graphing tools, etc.

The following images demonstrate some of the new tools now available.

Accommodations Options

Universal Tools

- ☒ Zoom
- ☒ Text Highlighting
- ☒ Strikethrough
- ☒ Notepad
- ☒ Per Item - One notepad per item
- ☐ Global - One notepad per test

Designated Supports/Accommodations

- ☐ Text to Speech
 - ☐ Allow voice selection
 - ☐ Allow speed adjustment

Cancel Delete Save

0 of 4 Answered (0 Flagged) Save << Prev Next >> Finish

2

Read the passage and answer the following question(s).

Lucky Penny

I used to tease my mother about stopping to pick up pennies. No matter where we were, if she saw a penny, it went directly into her purse. It was embarrassing the way she would bend over and pick them off the ground, out of flowerpots, and even out of the mud. She would always say, "Don't look a gift horse in the mouth." I didn't really know what that meant, but I did know that I would never resort to getting money that way; that was until a month ago.

This passage is BEST described as _____.


- ☐ a modern-day fairy tale about a girl
- ☐ a myth that explains how something happens
- ☐ a fantasy about a human whose wish comes true
- ☐ a modern-day fable about a human who learns a lesson


Notepad Speak Passage Speech Options Cancel


2


This passage is BEST described as _____.


- ☐ a modern-day fairy tale about a girl
- ☐ a myth that explains how something happened
- ☐ a fantasy about a human whose wish came true
- ☐ a modern-day fable about a human who learned a lesson

 Notepad

 Speak Question

 Speak Question & Options

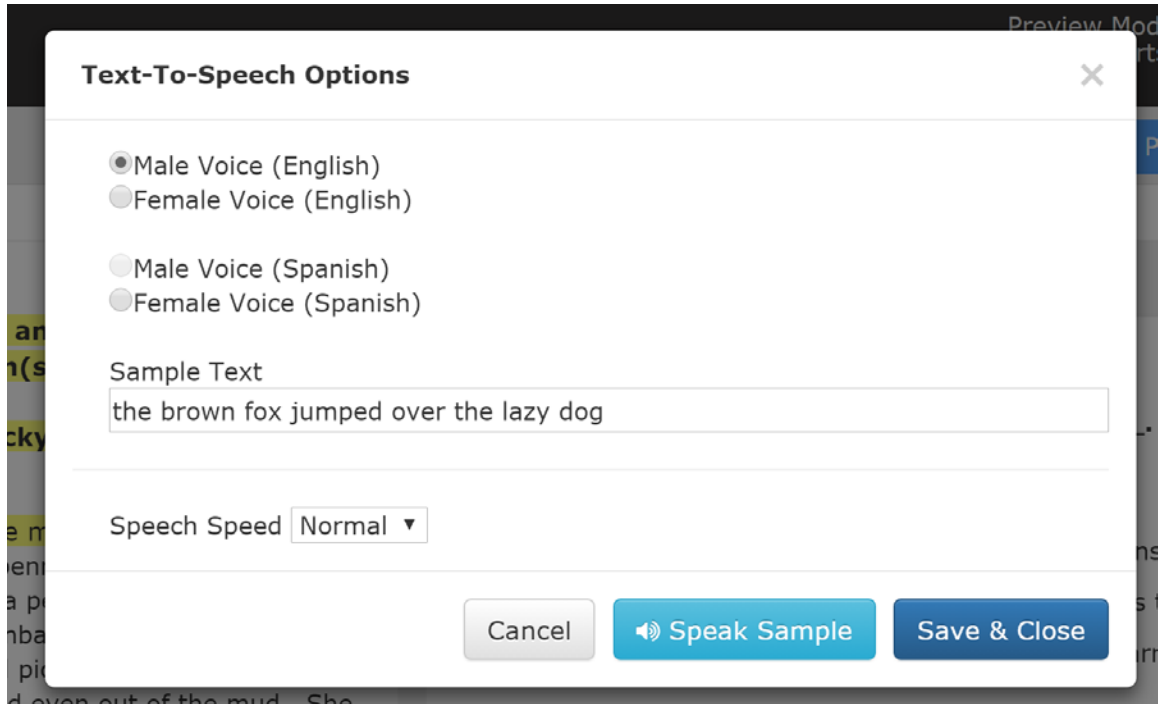
 Speech Options

 Cancel

3

Which of these forms of literature is MOST likely to begin with the words "Once upon a time"?

- ☐ ~~fairy tales and fables~~
- ☐ myths and legends
- ☐ science fiction and myths
- ☐ legends and science fiction



The image shows a 'Text-To-Speech Options' dialog box. It has a title bar with a close button (X). Inside, there are four radio button options: 'Male Voice (English)' (selected), 'Female Voice (English)', 'Male Voice (Spanish)', and 'Female Voice (Spanish)'. Below these is a 'Sample Text' input field containing the text 'the brown fox jumped over the lazy dog'. At the bottom left is a 'Speech Speed' dropdown menu set to 'Normal'. At the bottom right are three buttons: 'Cancel', 'Speak Sample' (with a speaker icon), and 'Save & Close'.

Paper Administration

IO Assessment provides full support for traditional pencil and paper testing. While paper and pencil administration decrease the ability to test some of the more advanced item types, traditional testing methods are still highly valuable. IO Assessment support includes the printing of hardcopy test booklets, pre-slugged answer sheets, and several methods of scanning the results.

IO Assessment uses a web-based delivery system with all content conforming to HTML5 standards and utilizing JavaScript. As long as installed browsers are HTML5 compliant and support JavaScript, users will experience no problems. Scanning software is compatible with Windows 7 and 8 and works on a Microsoft Network, requiring no Microsoft Office components

IO Assessment features a plain-paper scan sheet printing option that allows users the ability to use several scanners to score assessments. Users can use Brother-model scanners at the classroom, site, and district level. Using this scanning option allows monitoring of scanning at the district level, with results appearing instantly after scanning. IO's LSO software is compatible with most TWAIN compliant scanners. The following is a list of recommended scanners that are compatible with our LSO scanning software:

- Brother DCP-8060;
- Brother DCP-8080;
- Brother DCP-8150;
- Fujitsu fi-7160;
- Fujitsu fi-6130z; and,
- Fujitsufi-6130.


IO Assessment also supports online bubble sheets and the ability for users to enter student assessment data online.

Sample Online Reading Assessment

Read Selection 1, the first chapter of a story about a brother and a sister who stumble across something in the woods.

Selection 1

Into the Woods
from *Dinosaurs Before Dark*
by Mary Pope Osborne



1 "Help! A monster!" said Annie.
2 "Yeah, sure," said Jack. "A real monster in Frog Creek, Pennsylvania."
3 "Run, Jack!" said Annie. She ran up the road.
4 Oh, brother.
5 This is what he got for spending time with his seven-year-old sister

2

Explain the types of people Annie and Jack are based on their actions. Use details from both Selection 1 and Selection 2 to explain your answer.

3

Based on Selection 2, why is the gold medallion important to Jack?

- ☐ It is worth a lot of money.
- ☐ It was found in dinosaur time.
- ☐ It has special magical powers.
- ☐ It is a part of the tree house.

4

Sample Scan Sheet

Student: **Student, Carlos** Student ID: **0000021520**
 Teacher: **Alexander, George**
 School: **Adams Elementary, Demo_2016**
 Test: **Fluence Sample ELA 05**
 Test ID: **206726** Test Date: **Summer 2016**

wrong	(A)	(B)	(C)	(D)
wrong	(A)	(B)	(C)	(D)
wrong	(A)	(B)	(C)	(D)
correct	(A)	(B)	(C)	(D)



- 1. (A) (B) (C) (D)
- 2. (A) (B) (C) (D) (E)
- 3A. (A) (B) (C) (D)
- 3B. (A) (B) (C) (D)
- 4. (A) (B) (C) (D)
- 5. Mark in Booklet

Teacher Use Only
Constructed Response
 5. (0) (1) (2)

IO Assessment houses various Item Banks (Fluence, INSPECT, Measured Progress, TE21), all of which are searchable by standard, grade level, DOK, item type, and keyword search. IO Education will consult with SCPPS to identify the best vendor and bank to match the specific

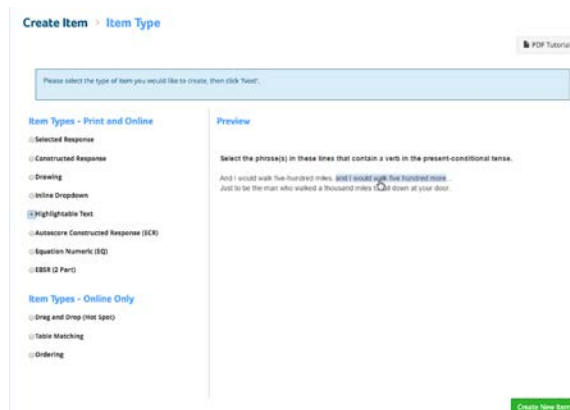
uses intended by the district. The solution also enables users to create their own items aligned to all those same searchable fields. Finally, if St Charles Parish has another item bank it would like IO to import, then we can work with that vendor via QTI. This is an extensive back and forth process involving much Quality Control before the bank is certified for teacher use.

IO Assessment offers users the ability to author their own items and performance tasks. Using the Item Creation feature, users can build the following item types: Selected Response (mc, ms, t/f/, c/i/nr), True/False, Constructed Response (open-ended) with single and multi-dimensional rubrics. The system provides tools for item creation that include drawing, inline dropdown, highlightable text, auto-score short answer, equation numeric, evidence based selected response, drag and drop, table matching, and ordering. Graphing item types are currently under development.

Videos, sound clips, calculators, rulers, protractors, and attachments can be added to all items. All Math items come with a math editor so student can access the symbols they need.

The following screen shots illustrate examples of IO Assessment item creation functionalities, labeled accordingly:

Create Item: Select Item Type



Create Item > Item Type [PDF Tutorial](#)

Please select the type of item you would like to create, then click "Next".

Item Types - Print and Online

- ☐ Selected Response
- ☐ Constructed Response
- ☐ Drawing
- ☐ Inline Dropdown
- ☒ Highlightable Text
- ☐ Autocomplete Constructed Response (ACR)
- ☐ Equation Numeric (EQ)
- ☐ ESSR (2 Part)

Item Types - Online Only

- ☐ Drag and Drop (Hot Spot)
- ☐ Table Matching
- ☐ Ordering

Preview

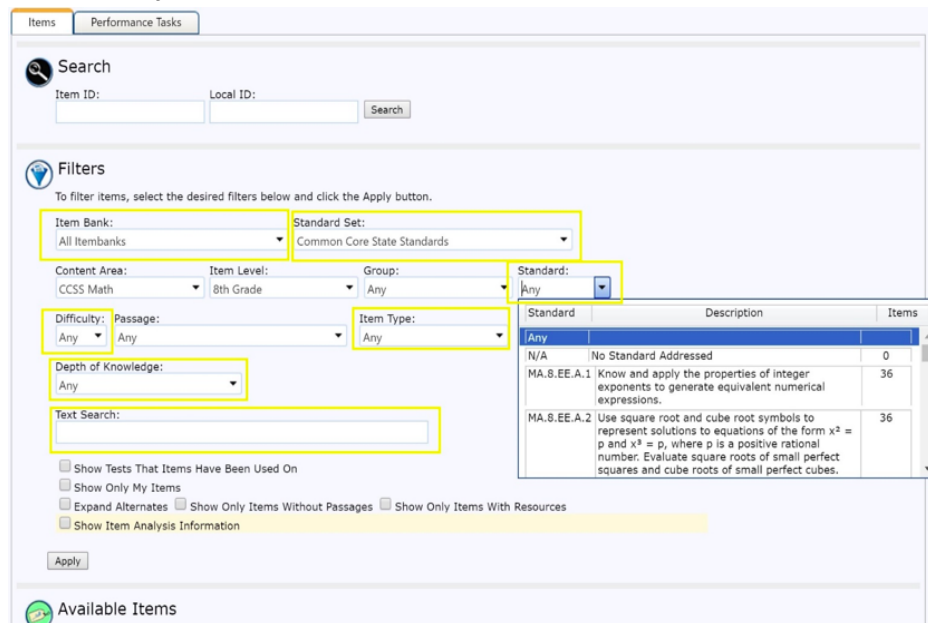
Select the phrase(s) in these lines that contain a verb in the present-conditional tense.

And I would walk five hundred miles. and I would walk five hundred miles.

Just to be the man who walked a thousand miles to down at your door.

Create New Item

Select Items from Item Bank by Standard, Content Area, Grade, Group, Difficulty, Item Type, DOK and Keyword Search



Search

Item ID: Local ID:

Filters

To filter items, select the desired filters below and click the Apply button.

Item Bank: Standard Set:

Content Area: Item Level: Group: Standard:

Difficulty: Passage: Item Type:

Depth of Knowledge:

Text Search:

☐ Show Tests That Items Have Been Used On
☐ Show Only My Items
☐ Expand Alternates ☐ Show Only Items Without Passages ☐ Show Only Items With Resources
☐ Show Item Analysis Information

Standard	Description	Items
/Any		
N/A	No Standard Addressed	0
MA.8.EE.A.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	36
MA.8.EE.A.2	Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes.	36

Available Items

Create Constructed Response Item

Content Editor [Constructed Response Item](#)

Item Form: Constructed Response | Item Type: Constructed Response | Item Bank: Common USD Item Bank | Media Type: Print And Online |

Stem / Prompt

Rubric

Users can score rubric- based items using the Constructed Response Grading feature in IO Assessment. We default to a blind scoring model (student names are not seen, students have been randomized). If user chooses to see student, user can click Show Students (if district allows).

Constructed Response Scoring

Points	What the Student KNOWS	What the Student DOES
3	Student understands exclamation points show strong emotion and that punctuation ends a sentence.	Student includes in the answer that the exclamation point shows the strong emotion that Anna might be feeling when she finds her diary lying wide open on the floor. AND Student includes information that shows Anna is finished speaking at the end of the quote. The exclamation point ends the sentence.
2	Student understands exclamation points show strong emotion.	Answer indicates that exclamation points are used to show excitement or strong emotion. This is how the student perceives Anna feels when she finds the diary lying wide open on the floor.
1	Student understands punctuation ends a sentence.	Answer defines an exclamation point as an ending punctuation. There is no comment made about an exclamation point showing strong emotion.
0	Unknown	Blank OR Writes "I don't know" OR Answer makes no sense.

☐ Show students with scores
 ☐ Hide Student Info
 ☐ Show passage
 ☐ Show item
 ☐ Show rubric

Scores will be saved automatically when a score is selected.

Answer	Points	Score & Comments
	?	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 Comments: <input type="text"/>
The theme of the poem is a different key holds a different memory to the narrator. 1) Each key walking within me some memory that has lasted for years. Each key reminds the narrator of something in the past 2) And I lay a finger on the chilly surface of a large key with a tag of tape bearing the name of my grandfather. The narrator remembers the memories he had with his grandfather after seeing his grandfather's name on a key 3) I scoop the keys into their jar. Shoving away even those that should still to tell their stories and unlock my mind. The narrator is sucked into reminiscing about all the memories and the keys that remind him of those memories.	?	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 Comments: <input type="text"/>

Create Multiple Select Items

Item Form: Selected Response
 Item Type: Multiple Choice (MC)
 Item Bank: Production
 Media Type: Online Only
 [Edit](#)
 [Add Passage](#)

[+ Resource](#)
[+ Teacher Instructions](#)
[+ Special Fields](#)

Stem / Prompt: Select all correct answers
 [Hide Stem / Prompt](#)

Answer Choices:

Scoring Instructions:

- A Don't pick this one
- B This is correct
- C This one is wrong
- D This is correct
- E This is correct
- F Not this one
- G Try again

Default: C-I C-I-NR T-F
 Vertical Horizontal Side By Side

Rationale:

- A Everybody knows this is wrong because.....
- B Ding Ding Ding!
- C Don't go there
- D Ding Ding Ding!
- E Ding Ding Ding!
- F Because I said so!
- G You gotta be kidding me!




Create Technology Enhanced Items: Include a calculator, protractor, and/or ruler.

Please select the type of item you'd like to create then click 'Create New Item'.

Item Types

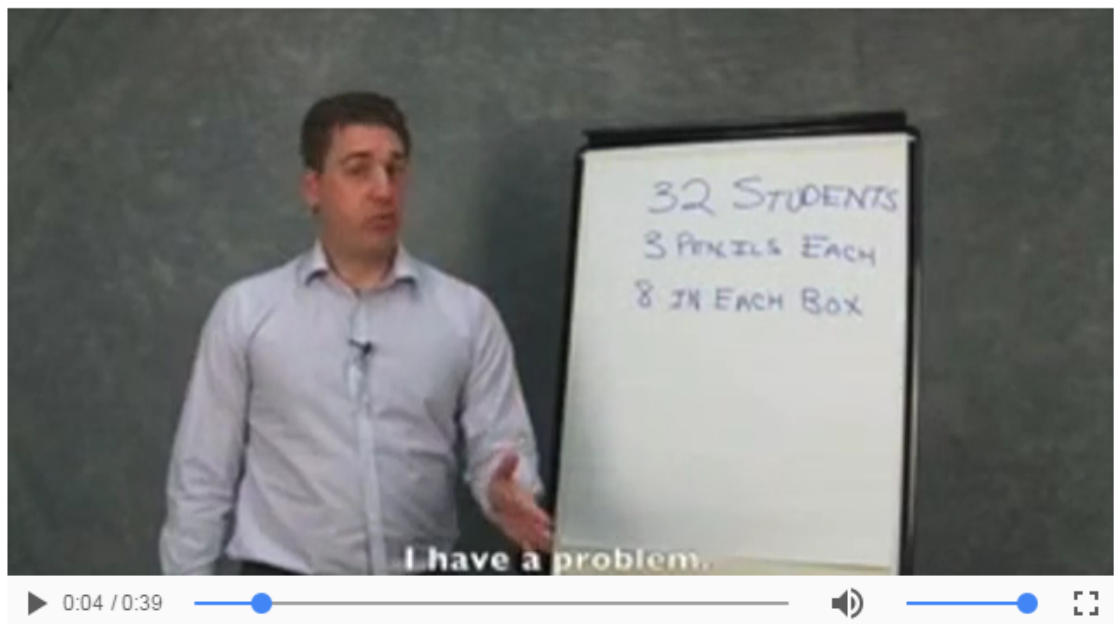
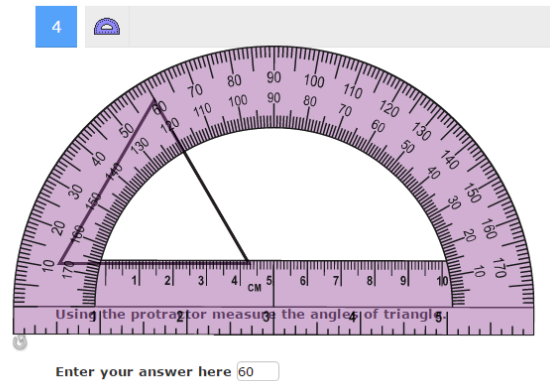
PDF Tutorial

Selected Response ?

Available Tools:   

- ☐ Constructed Response ?
- ☐ Drawing ?
- ☐ Inline Dropdown ?
- ☐ Highlightable Text ?
- ☐ Autoscore Constructed Response (ECR) ?
- ☐ Equation Numeric (EQ) ?
- ☐ 2 Part EBSR ?
- ☐ Drag and Drop (Hot Spot) ?
- ☐ Table Matching ?
- ☐ Ordering ?

IO Assessment renders and builds Technology Enhanced Items and provides the ability to incorporate critical web-based tools, such as calculators, protractors, rulers and files uploaded by students. The functionality of the online testing module is similar in many ways to the online experience provided by high-stakes assessments.



The screenshot displays a software interface for a math problem. At the top, a blue bar contains the number '8' and a calculator icon. Below this, the problem text reads: "You buy a new car for \$22,000. The value of the car decreases by 15% each year." The problem is divided into two parts: "a) Write an exponential decay model for the value of the car." and "b) Graph the model. Label Axes".

Part (b) is active, showing a graphing area with a grid. A line is plotted on the grid, starting from the top-left and sloping downwards to the bottom-right. Above the graph is a toolbar with various icons for editing the graph. To the right of the graph is an "Equation" panel. This panel has a search bar at the top and three tabs: "Basic", "Letters", and "Advanced". The "Basic" tab is selected, showing a grid of numbers (1-9, 0, ., -, /, +, -, =, >, <), a grid of letters (a-z, A-Z), and a grid of mathematical symbols (%, ^, ², ³, &frac;, <, >, <=, >=, <math>, </math>, <math>, </math>, <math>, </math>). The "Letters" tab shows a grid of letters (a-z, A-Z). The "Advanced" tab shows a grid of mathematical symbols (%, ^, ², ³, &frac;, <, >, <=, >=, <math>, </math>, <math>, </math>, <math>, </math>). The "Equation" panel also includes buttons for "Sine", "Cosine", "Tangent", "Arcsine", "Arccosine", and "Arctangent". An "OK" button is located at the bottom right of the "Equation" panel.

- The system should be able to have multiple levels of proficiency, ie, LEAP 2025-Advanced, Master, Basic, Approaching Basic, Unsatisfactory; district assessments scale of 1-10 or 100 points.

Confirmed. The IO platform is able to have multiple levels of proficiency, ie, LEAP 2025-Advanced, Master, Basic, Approaching Basic, Unsatisfactory; district assessments scale of 1-10 or 100 points. Users can set proficiency levels and customized terminology for quick identification of academic status. The following is an example based on AIMSWEB data.

Assessment Template Proficiency Levels

AIMSWEB - Proficiencies

Grades:
2

Add Proficiency

Name	Min Score	Max Score	
Very Low	0	10	
Low	11	25	
Average	26	75	
High	76	90	
Very High	91	99	

DONE

- The system must be able to align assessment results to Louisiana Student Standards.

Any changes to the standards due to new content adoptions by the Louisiana Department of Education, should be able to be easily updated by the district or automatically uploaded by the vendor.

Confirmed. The system aligns assessment results to Louisiana Student Standards and multiple standards or frameworks. Any changes to the standards due to new content adoptions by the Louisiana Department of Education, are automatically uploaded by the vendor.

- The system must include a reporting system. The system should be able to print reports that are easy to read and will help guide instruction. The reports should be able to be exported. Reports should be easy to read with possible graphs and charts to guide instruction.

Confirmed. IO Education offers St Charles Parish Public Schools one of the most sophisticated and intuitive reporting systems available in the PK12 market. The system also provides print reports that are easy to read and help guide instruction. The reports can be exported. Reports are easy to read with graphs and charts to guide instruction.

- The system should allow all staff to filter student groups (ie., by demographics, intervention groups, etc for reporting purpose.

Confirmed. The system allows staff to filter student groups (ie., by demographics, intervention groups, etc for reporting purpose.

- The system should have a dashboard for quick assessment analytics.

Confirmed. The system includes a dashboard for quick assessment analytics.

- The system must be able to disaggregate multiple assessments (state, local, etc) at a time.

Confirmed. The system is able to disaggregate multiple assessments (state, local, etc) at a time.

- The system should have the ability to create customized reports.

Confirmed. The system provides the ability to create customized reports.

- The system should have the ability to report item analysis depending on assessment entry method.

Confirmed. The system provides the ability to report item analysis depending on assessment entry method.

- The system must be able to disaggregate the assessment results by student, class, course, school, district, grade level, Louisiana Student Standards, student demographics (ie, ethnicity, gender, LEP), assessment score/proficiency.

Confirmed. The system provides the ability to disaggregate the assessment results by student, class, course, school, district, grade level, Louisiana Student Standards, student demographics (ie, ethnicity, gender, LEP), assessment score/proficiency and many more.

Note: A detailed response for the previous seven requirements will be described together as follows.

IO Education offers almost unlimited options to visually analyze data. During the SCPPS implementation process the IO project team will work with to create and design dashboards and visual analytics to meet your needs. In addition to the many IO Assessment data representations, users have access to IO Insights, which provides many additional visual analytics.

The proposed analytics system includes four core elements:

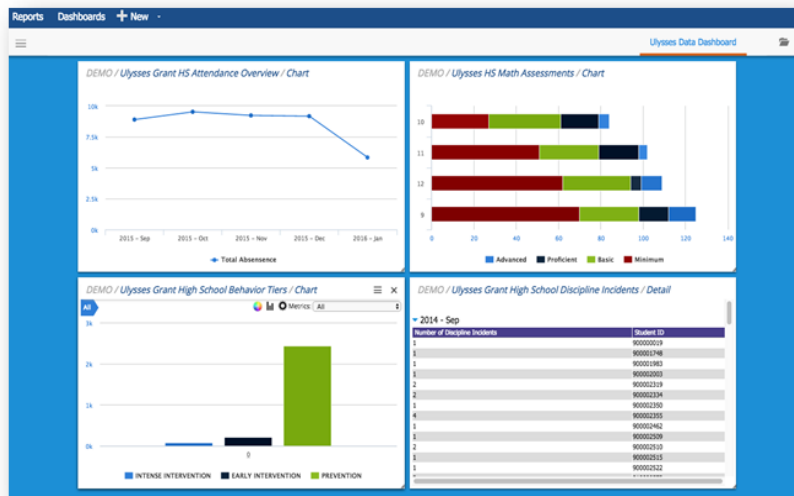
1. Dashboards - allows users to view student data in visual form, and can be customized to the user's preference. By clicking on any part of the chart, users are able to view the school or filtered group breakdown for these results. Users can then drill down by school, course or even to individual students depending on the access permissions associated with their role-type, e.g., district data team, site administrators, and classroom teachers.



All IO Insights charts include multiple filtering options. Filters include, but are not limited to district, school, teacher name, course, grade level, gender, ethnicity, Special Education status, ELL status, cohort, and custom groups. Users can choose multiple filters to create a chart for their targeted group of students.

Any imported data can be used to create additional customized dashboards for SCPPS. These dashboards include various types of visualizations and support drill downs on the data. During implementation, data and reports will be reviewed to determine what reports will be included on the district's dashboard.

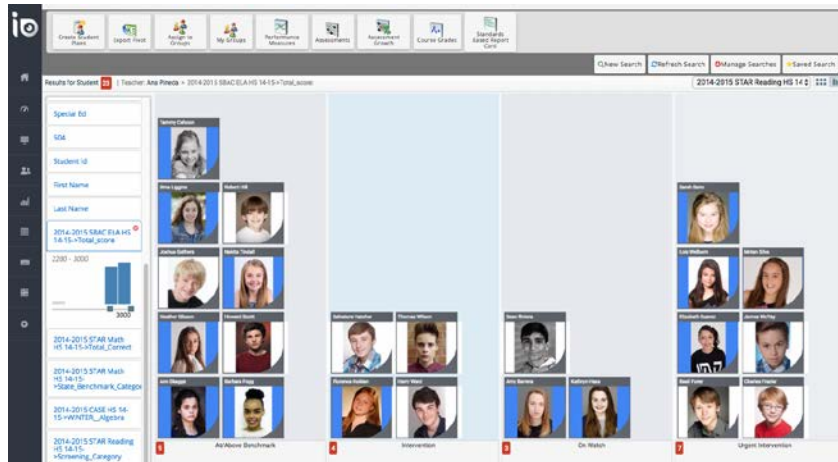
Customized Data Dashboard



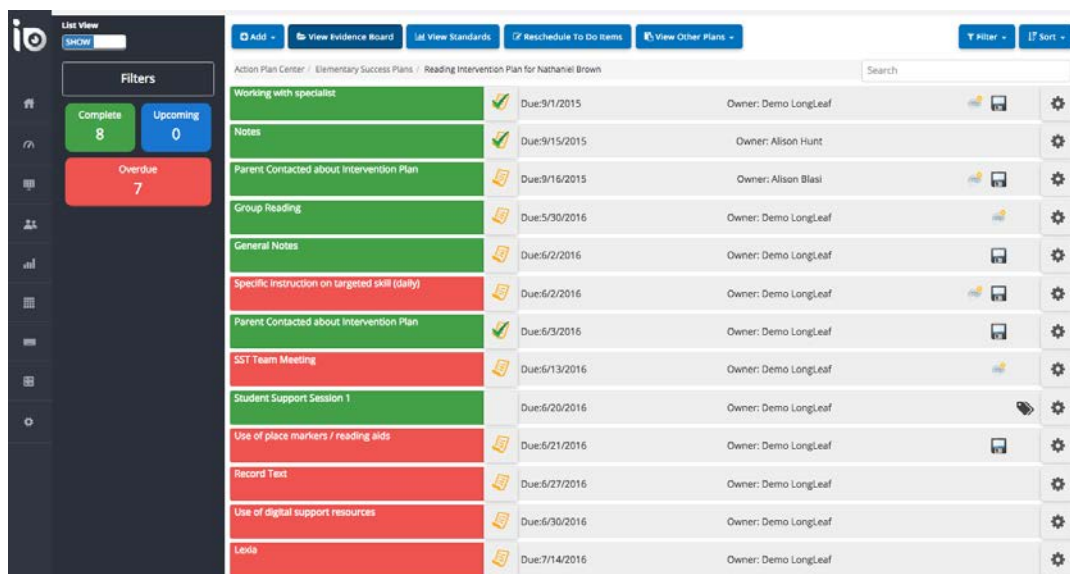
2. Early Warning System through Metrics - collects data from SIS and any other data source, such as assessments, to provide powerful analytics using familiar sorting, filtering and grouping



3. Virtual Data Wall - provides a user-friendly data view centered on student pictures, faces that teachers and educators see every day. In a handful of clicks, a user can view an entire class or school and group and analyze students based on any performance data such as attendance, behavior, local benchmark assessments, student portfolio, and course grades. All data in this visual analytics experience can be exported in one click providing limitless opportunities for ad hoc and customized reporting.



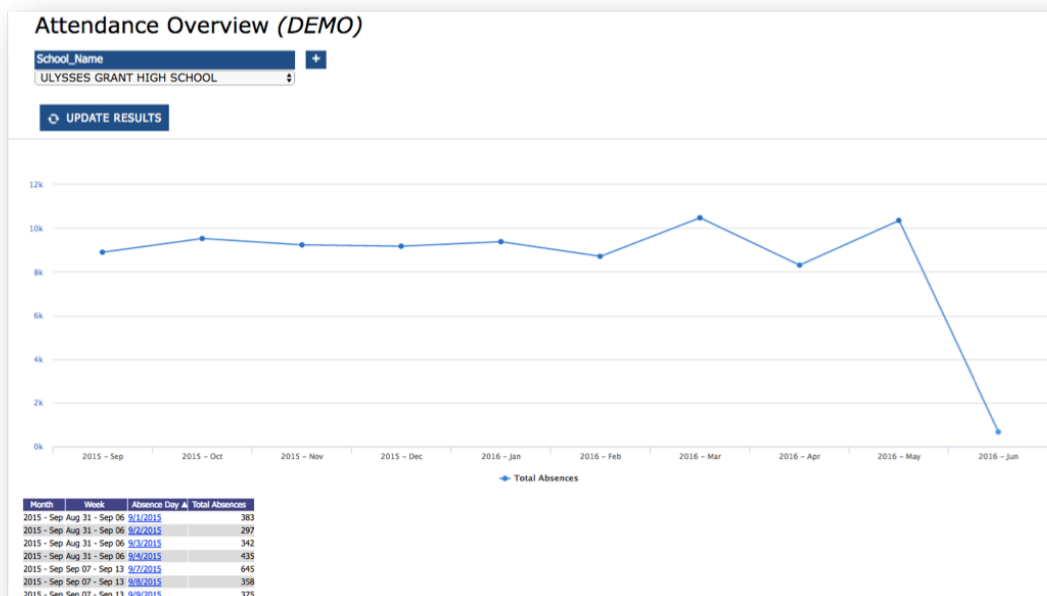
4. Personalized Learning Plans - allows districts and schools to create custom metrics that track at-risk students and their progress toward meeting requirements for graduation and college and career readiness



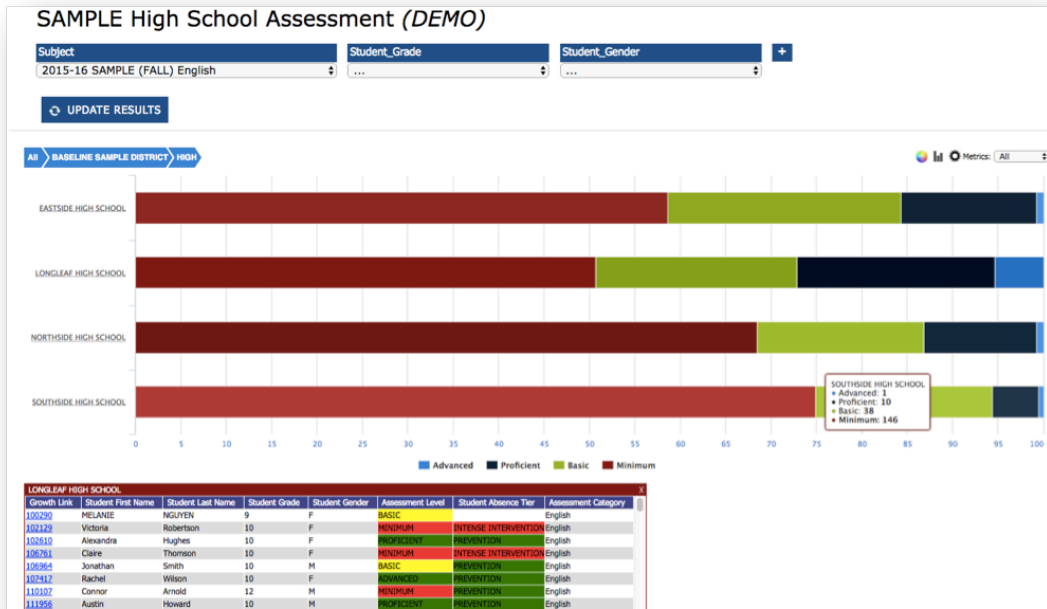
The Insights Dashboard allows users to view student data in visual form, and can be customized to the user's preference. By clicking on any part of the chart, users are able to view the school or filtered group breakdown for these results. Users can then drill down by school, course or even to individual students depending on the access permissions associated with their role-type. All IO Insights charts include multiple filtering options. Filters include, but are not limited to district, school, teacher name, course, grade level, gender, ethnicity, Special Education status, ELL status, cohort, and custom groups. Users can choose multiple filters to create a chart for their targeted group of students.

Any imported data can be used to create additional customized dashboards for St. Charles Parish. These dashboards include various types of visualizations and support drill downs on the data. During implementation, data and reports will be reviewed to determine what reports will be included on the district's dashboard.

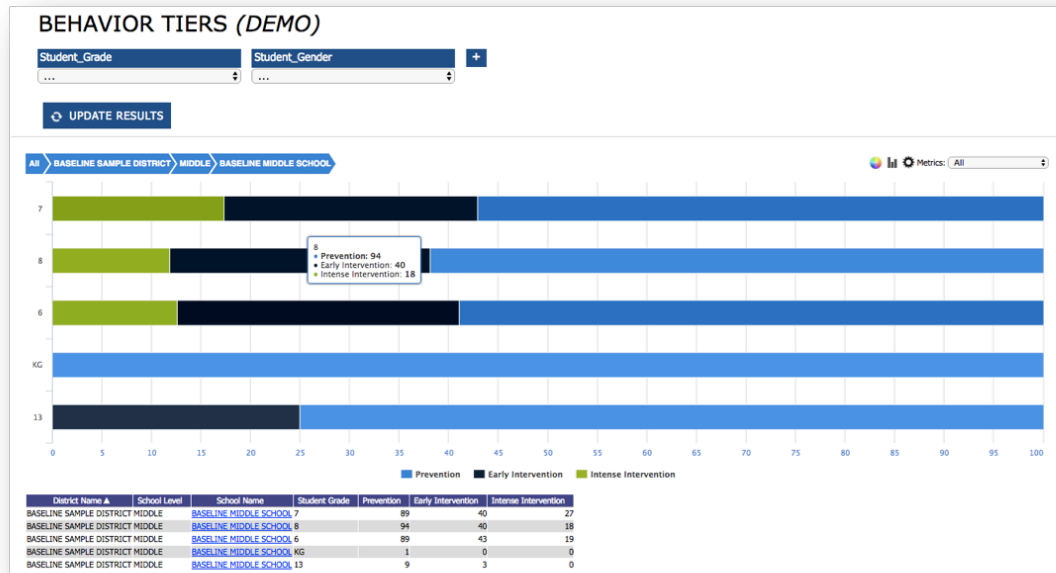
Attendance Report



Assessment Report



Discipline Report



BASELINE MIDDLE SCHOOL						
113024	Hardacre	Christian	6	M	INTENSE INTERVENTION	6
50188	Rampling	Rachel	8	F	INTENSE INTERVENTION	6
99506	Abraham	Julia	7	F	INTENSE INTERVENTION	6
114040	Wilson	Jason	7	M	INTENSE INTERVENTION	6
45582	Newman	Anthony	8	M	INTENSE INTERVENTION	6
111933	Quinn	Frank	7	M	INTENSE INTERVENTION	6
108121	Glover	Dylan	6	M	INTENSE INTERVENTION	6
100013	Duncan	Leonard	6	M	INTENSE INTERVENTION	6
100026	Morrison	Jan	8	M	INTENSE INTERVENTION	6
103347	Buckland	Faith	7	F	INTENSE INTERVENTION	6
102984	Payne	Piers	6	M	EARLY INTERVENTION	5
100044	Watson	Brandon	8	M	EARLY INTERVENTION	5
104974	Harris	Matt	6	M	EARLY INTERVENTION	5
107897	Peake	Ella	6	F	EARLY INTERVENTION	5
107327	Murray	Anna	6	F	EARLY INTERVENTION	5
107467	Morgan	Stephen	7	M	EARLY INTERVENTION	5
47588	Edmunds	Wendy	8	F	EARLY INTERVENTION	5
50538	Dyer	Paul	8	M	EARLY INTERVENTION	5
48631	Ross	Neil	8	M	EARLY INTERVENTION	5
112188	Newman	Faith	8	F	EARLY INTERVENTION	5
100359	Churchill	Yvonne	8	F	EARLY INTERVENTION	5
67684	Hodges	Colin	8	M	EARLY INTERVENTION	5
30115	Rampling	Lucas	8	M	EARLY INTERVENTION	5
108144	Piper	Bernadette	7	F	EARLY INTERVENTION	5
103560	Metcalfe	Lily	8	F	EARLY INTERVENTION	5

While the Insights platform includes a library pre built reports, including drill down reports for assessments, attendance, and behavior. Users can also create custom reports from customized metrics.



IO Assessment aggregates results across tests, learning standards, campuses and years, using the Show Advanced feature described and illustrated above and below. IO Assessment also makes building longitudinal reports easy using the Group Report. This feature give users access to all their test data including national, state, classroom formative, district benchmarks. and vendor assessments such as Dibels, STAR, Iready, NWEA MAPS, etc. Once we have imported data, users can use our Report Builder to put all their data one report. Student profile allows you to access the complete testing history for each student, serving as an electronic cumulative folder.

Using Report Builder Across Tests, Standards, Campuses, and Years

Enrollment Date: 2/1/2016 School: All Grade: All Department: All Course: All Period: All Teacher: All Student Count: 8,941							
Test ID	Test Name	Admin Date		# Tested			
206083	SBAC Grade 03 ELA/Lit Summative	2014-2015		649			
	SBAC Grade 04 ELA/Lit Summative	2014-2015		623			
	15-16 District Assessment-A ELA G04	Fall 2015		668			
	15-16 District Assessment-A ELA G05	Fall 2015		656			

Cutpoint Legend:

Standard Not Met		Standard Nearly Met		Standard Nearly Met		Standard Met		Standard Exceeded	
Below grade level		Approaching		At or Above grade level					
				SBAC Grade 03 ELA/Lit Summative		SBAC Grade 04 ELA/Lit Summative		4th ELA 1	5th ELA 1
				2014-2015		2014-2015		Fall 2015	Fall 2015
Site		# Tested	SS	Level	SS	Level	%	%	
1 Adams Elementary		72	2358.9	1.7	2401.7	1.6	42.8	41.5	
2 Harrison Elementary		50	2366.9	1.7	2381.7	1.6	39.3	38.9	
3 Jackson Elementary		65	2373.3	1.9	2408.4	1.6	41.8	41.8	
4 Jefferson Elementary		40	2405.6	2.2	2444.1	2.1	50.0	43.5	
5 Madison Elementary		49	2320.7	1.2	2422.8	1.9	36.6	50.0	



IO Assessment provides analysis and reporting at all levels: student, teacher/classroom, course, campus, and district. One way to access the varying level (determined by user permissions) is through the IO Assessment Report Builder tool that provides the ability to manage pre-formatted reports, generate custom reports via Custom Report Builder, and create teacher comparison reports. It also displays assessment results in the aggregate by district, school, class, teacher and/or student and disaggregate by ethnicity, gender, free/reduced lunch status, exceptional education status, and program status. Users may opt to view reports as pie or bar chart graphs.

Users may also use IO Insights features to analyze and report at all levels.

The following Assessment Report Builder samples below illustrate the versatility of the system to provide the data you need at any level.

IO Assessment Report Builder: Select Students

Report Builder > Select Students

11/30/2016
Students

Regular Classrooms
Custom Classrooms

Enrollment Date:
School:
Grade:
Dept:

Current
Bell Mountain MS
8
Mathematics

Course:
Period:
Teacher:

All
All
All

Filter Demographics

Reset

Category:
Selection:

Language Fluency
IS
RFEP
AND

Category:
Selection:

Home Language
IS
Spanish
AND

Category:
Selection:

Select...
...
Select Category...

Filter Individual Students

Next

IO Assessment Report Builder: Select Tests for a School

Report Builder > [Select Tests](#)

 Students

Enrollment Date: 11/30/2016 School: Bell Mountain MS Grade: 8th Grade Department: Mathematics Course: All Period: All Teacher: All
 Student Count: 375

Test Name	Admin Date	# Tested
iReady Reading Grade 8	Fall 2016-17	322
MUSD Compacted Math 08 Unit 1 Mid Test 1 16-17	2016-17	353
MUSD Compacted Math 08 Unit 1 Mid Test 4 16-17	2016-17	80
SBAC All Grades ELA/Lit Summative	2015-2016	328
SBAC All Grades Mathematics Summative	2015-2016	328
SBAC Grade 07 ELA/Lit Summative	2015-2016	328
SBAC Grade 07 Mathematics Summative	2015-2016	328

[Search](#)

School Year:

2015-2016

Category:

I-READY Math

Content Area:

All

Test Level:

All

Show only tests my student group has taken: ☒ Yes ☐ No

Show strands/skill areas: ☒ Yes ☐ No



IO Assessment Report Builder: Standard Mastery by Group or Class

Cutpoint Legend:







Standard Not Met		Standard Nearly Met			Standard Met		Standard Exceeded					
		Standard Not Met (0-50)			Standard Nearly Met (51-63)		Standard Met (64-81)			Standard Exceeded (82-100)		
		iReady Reading Grade 8	SBAC Grade 07 ELA/Lit Summative		SBAC Grade 07 Math Summative		SBAC All Grades ELA/Lit Summative		SBAC All Grades Math Summative		MUSD-Math08-U1-Mid-16-17	MUSD-Comp-Math08-U1-Mid4-16-17
		Fall 2016-17	2015-2016		2015-2016		2015-2016		2015-2016		2016-17	2016-17
Teacher	# Tested	SS	SS	Level	SS	Level	SS	Level	SS	Level	%	%
1 Michael	152	601.8	2581.2	2.8	2563.6	2.6	2581.2	2.8	2563.6	2.6	76.2	85.9
2 Christina	140	614.3	2608.7	3.1	2592.0	2.9	2608.7	3.1	2592.0	2.9	87.9	81.6
3 Robert	76	592.2	2559.0	2.5	2541.4	2.2	2559.0	2.5	2541.4	2.2	38.4	
Mean:		604.3	2586.3	2.8	2568.9	2.6	2586.3	2.8	2568.9	2.6	73.2	83.7
Median:		611.5	2589	3	2577	3	2589	3	2577	3	85.7	87.5
Mode †:		636	2745	3	2584, 2600	3	2745	3	2584, 2600	3	100	90
Standard Deviation:		43.3	82.4	0.9	84.9	1	82.4	0.9	84.9	1	28.4	13.5
Standard Not Met:				35 (10.7%)		48 (14.68%)		35 (10.7%)		48 (14.68%)		
Standard Nearly Met:				68 (20.8%)		99 (30.28%)		68 (20.8%)		99 (30.28%)		
Standard Met:				147 (44.95%)		105 (32.11%)		147 (44.95%)		105 (32.11%)		
Standard Exceeded:				77 (23.55%)		75 (22.94%)		77 (23.55%)		75 (22.94%)		
Standard Not Met (0-50):											79 (22.38%)	2 (2.5%)
Standard Nearly Met (51-63):											52 (14.73%)	6 (7.5%)
Standard Met (64-81):											41 (11.61%)	20 (25%)
Standard Exceeded (82-100):											181 (51.27%)	52 (65%)

† Modes with more than five values are represented by an asterisk.


The Show Advanced feature on all IO Assessment reports allows users to add, sort, correlate, aggregate, and disaggregate both enrollment and demographic data as well as change score type, add past years' data and much more. Quick Options allows users, based on their permission, to change views: students, teachers, grade level, and sites. Reports can also be saved, or taken to excel/pdf for further analysis.

IO Assessment Show Advanced Feature: Filtering Options

Report Builder > View Report

Quick Options:

Teacher 

Advanced Options

Enrollment Demographics Sort Filter Disaggregate Scores Longitudinal Ranges Reorder Numbers Quantiles

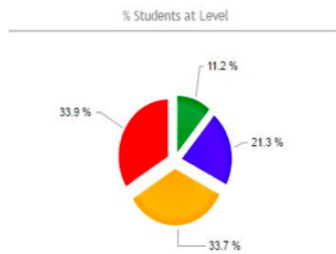
Select demographic fields to include in the report:

☐ SSID ☐ Ethnicity ☐ Language Fluency ☐ R-FEP Date ☐ USA Enroll-date
☐ Parent Ed Level ☐ Gender ☐ Home Language ☐ SpEd Status ☐ EL Level
☐ EL Level (Most Recent) ☐ Birth Date ☐ Gate ☐ Primary Disability

IO Assessment users may create reports that demonstrate student growth and mastery of learning objectives and standards across multiple assessments and years. The Student Mastery Report can display all instances a student has been assessed on a standard, showing each item in the order assessed.

Users can calculate assessment growth values to determine which students have improved over time and which students have not. Student growth may be reported as a percentile or a gain. The platform also sorts/filters students by proficiency levels in terms of meeting learning objectives or standards. Proficiencies are defined by the assessment author. In the case of SBAC, PARCC or state testing, the system automatically recognizes the proficiency levels.

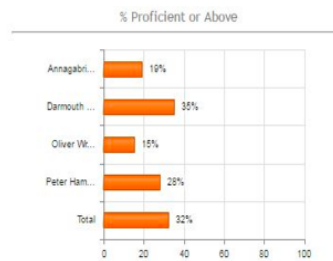
STUDENT PROFICIENCY LEVELS



Student Performance

	Performance Level	#	%
<input type="checkbox"/>	4 Exceed Standard	71	11.2
<input type="checkbox"/>	3 Met Standard	135	21.3
<input type="checkbox"/>	2 Approaching Standard	214	33.7
<input type="checkbox"/>	1 Not Met	215	33.9

Go! Custom Classroom



Item Response analysis is available at the student, classroom, teacher, campus and district level.

Sample Item Detail Report

In Selection 1, how does Shakespeare show the nurse's relationship to Juliet?

%	Answer	Rationale
44.4	A He shows that the nurse resents her for not respecting her age.	Juliet is simply obsessed with learning what Romeo said.
11.1	B He shows that the nurse is more loyal to the family than to Juliet.	The nurse is loyal to the Capulets, but particularly to Juliet.
11.1	C He shows that the nurse fears her by following her orders to the letter.	The nurse clearly does not fear Juliet because she stalls in giving her the information she wants.
33.3	D He shows that the nurse cares for her by teasing her with the information.	Key: The nurse knows the answer and is intentionally rambling and getting off topic.
0.0	? Blank	
0.0	* Multiple Marks	

Correct answer is **A**.
Incorrect answer with the greatest response is **D**.

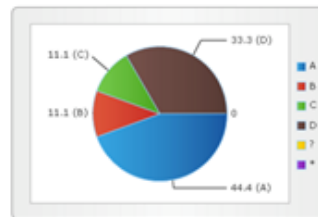
Response: A

Hide Response Detail

Quick Options:

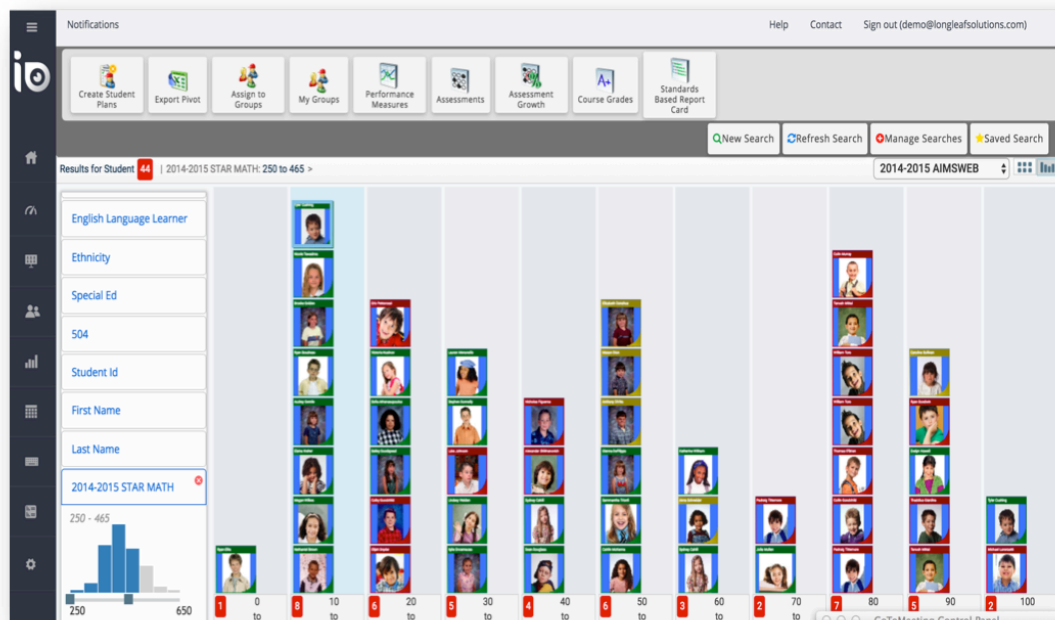
Student [Show Advanced](#)

Student ID	Student Name	609 D.A.-C	Informational Text	Presentation of Knowledge
1	15647	Student, Itzel		

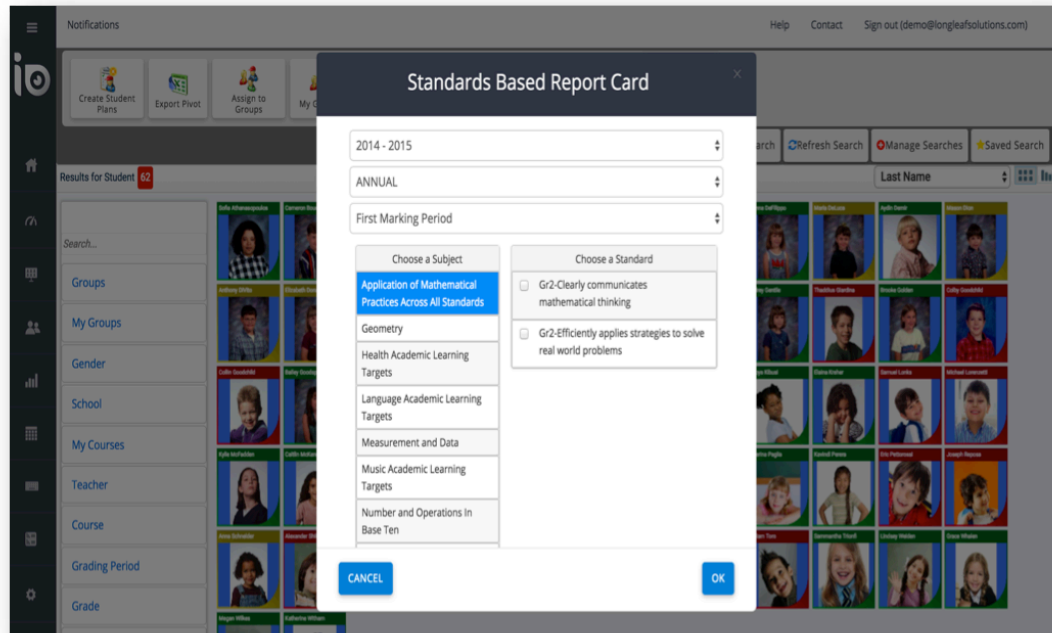


The IO Insights Virtual Data Wall is a user-friendly data view centered on student pictures, faces that teachers and educators see every day. In a handful of clicks, a user can view an entire class or school and group and analyze students based on any performance data such as attendance, discipline, course grades, and assessments. All data in this visual analytics experience can be exported in one click providing limitless opportunities for ad hoc and customized reporting.

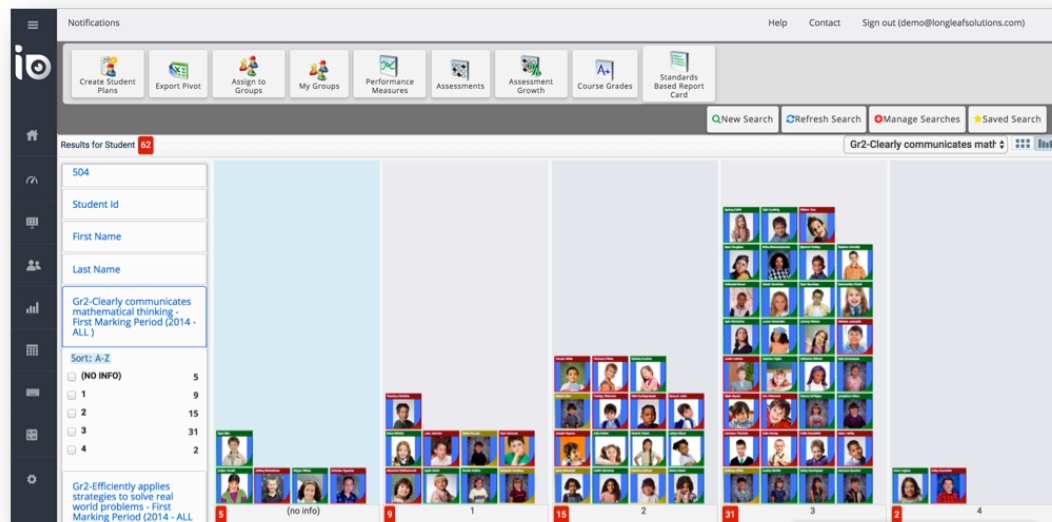
We believe that all data analysis should lead the user to take action. In just one click directly from the Virtual Data Wall, users can put students on individual success plans based on best practice templates provided by the SCPPS. Using the Virtual Data Wall, educators can plot and analyze students by standards, and compare progress on those standards against other measures, such as assessments, attendance, or discipline.



Standards in Virtual Data Wall



Students Plotted by Standard

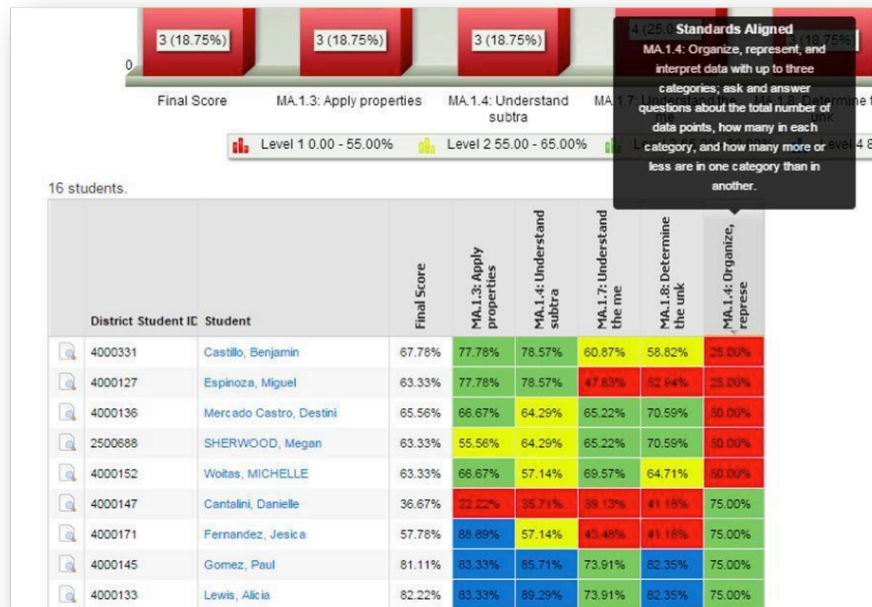


Any imported data can be used to create additional customized dashboards for MVS. These dashboards include various types of visualizations and support drill downs on the data. During implementation, data and reports will be reviewed to determine what reports will be included on the district's dashboard. The IO Education Insights platform enables end users to interact with data flexibly, drilling down from the school to the classroom or student level and disaggregating data by a wide range of student characteristics, including descriptions of learning standards represented by the score.

Standards Report



Standard Report Color Coded Table



IO Education has developed a metric tool that allow districts to use researched-based metrics or set customized metric thresholds on specific data points for all grades and subgroups. All imported data sets (including attendance, assessments, behavioral data, grade data, Report Card, credits, etc.) are included in defining promotional, graduation and college readiness metrics. Additional tools support high school preparation by showing teachers, administrators and other staff how to recognize the key performance indicators for students when they are at risk of failing. St. Charles Parish Schools can customize their own early warning indicators and data sets with multiple customized metrics and conditions.

User options for metrics include defining the number of levels in the metric from simple Met/Not Met to complex 20 level metrics of graduation requirements. Each level can be named to reflect the district's culture and shared terminology. Users define the data sets that are included as well as the level cutoffs.

Create a Metric

Levels

Filters

Number of Levels

0 Off Track

1 Almost On Track

2 On Track

3 Advanced Track

Currently Displaying: All Enabled Rules

Category	Enabled	Students with no data, add to lowest level	Almost On Track	On Track	Advanced Track
Anecdotal Total number of Negative Behavior Anecdotal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	2	0
Daily Attendance Year to Date Percentage In School	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	75	85	92
HS Assessments Highest English HS Assessment score	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	55	65	75
HS Assessments Highest Math HS Assessment score	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	55	65	75

Metric Disaggregated Report



IO Assessment provides individual student profile reports. Below is a sample report from IO Assessment.

Sample Student Profile

Student Profile > [View Report](#)

[Change Settings](#)

Jump to Student:
 < [Anthony] >
 1 of 156

Student Name: Anthony	Student ID: [REDACTED]	DOB: [REDACTED]
School Name: [REDACTED]	Grade: 8	Gender: M
Home Language: English	Language Fluency: EO	School Mobility: 2
District Mobility: 7	Parent Education: Declined/Unknown	RFEP Date:
USA Enrollment:	Primary Disability: Specific Learning Disability	Special Ed Student: Y
EL Program: 0	RFEP ELA Prof. 3+ yrs.: N	State Defined EL Subgroup: EO

SBAC Summative

Assessment	2015-2016		2014-2015	
	SS	Level	SS	Level
SBAC Grade 06 ELA/Lit Summative			2485	Nearly Met Standard
SBAC Grade 07 ELA/Lit Summative	2479	Nearly Met Standard		
SBAC Grade 06 Math Summative			2424	Not Met Standard
SBAC Grade 07 Math Summative	2446	Not Met Standard		
SBAC All Grades ELA/Lit Summative	2479	Nearly Met Standard	2485	Nearly Met Standard
SBAC All Grades Math Summative	2446	Not Met Standard	2424	Not Met Standard

California Standards Test

Assessment	2013-2014			2012-2013		
	SS	%	Level	SS	%	Level
CST ELA Total				304	41.3	Basic
CST Math Total				266	40.0	BB
CST Grade 5 Science	298	50.0	BB			

Writing Prompts

Assessment	Tri 3 2013-14		Tri 2 2013-14		Tri 1 2013-14	
	RS		RS		RS	
Gr 2-5 Writing Prompt	4		5		2	
Content&Organization	2		2		2	
Conventions	2		3		3	

Physical Fitness Test

Assessment	2015-2016		2013-2014	
	Tests Met	Level Name	Tests Met	Level Name
PFT	0		6	
Aerobic Capacity			1	Met
Body Composition			1	Met



Showing results for local tests administered between 7/1/2016 and 6/30/2017. Click [here](#) to change this range.

Local Tests - CCSS ELA

MUSD ELA 08 Unit 1 Post Test 16-17		MUSD ELA 08 Unit 2 Post Test 16-17
2016-17		Fall 2016
%		%
Total	60	57.14
Conventions of Standard English	100	
Informational Text	50	0
Vocabulary Acquisition and Use	100	
No Standard Addressed		61.54

Local Tests - CCSS Math

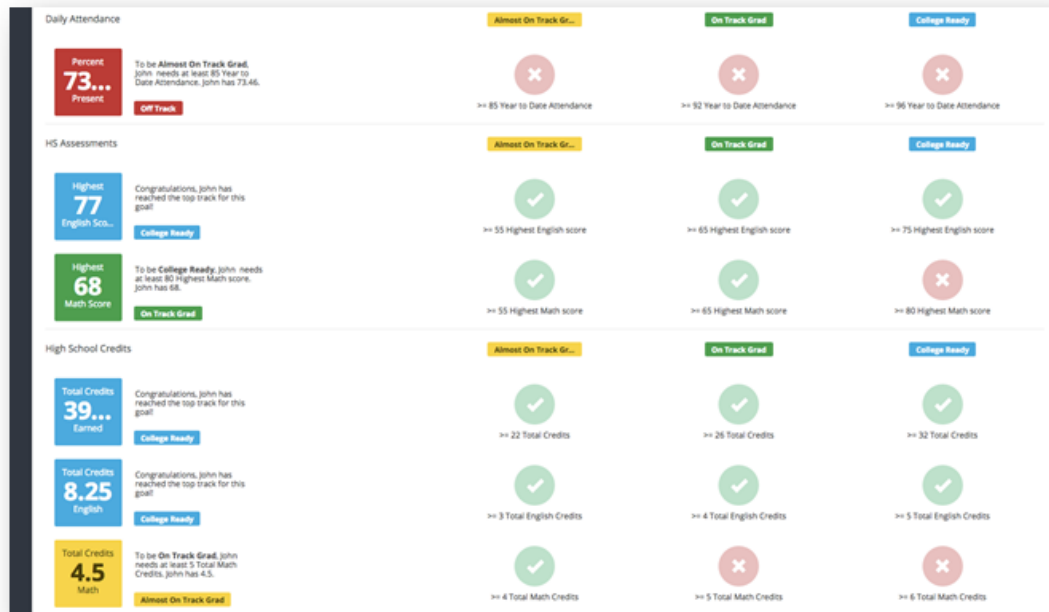
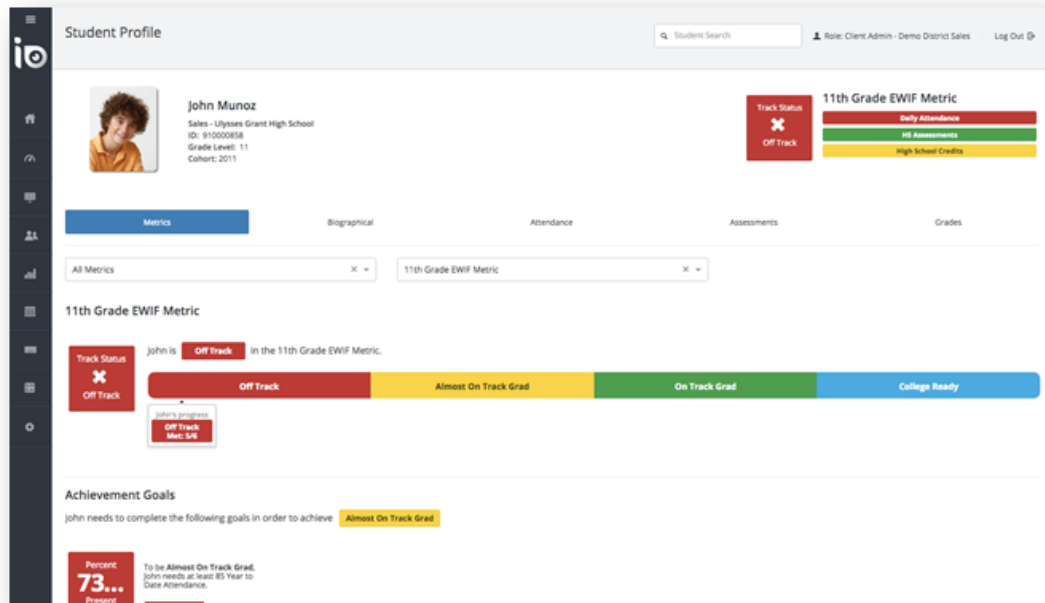
MUSD Compacted Math 08 Unit 1 Mid Test 1 16-17		MUSD Math 08 Unit 1 Post Test 16-17
2016-17		Fall 16-17
%		%
Total	42.86	40
Geometry	42.86	40

Date	School	Grade	
Current	Bell Mountain MS	8	Multiple Teachers
Current (with Inactives)	Bell Mountain MS	8	Multiple Teachers
Fall 2016	Bell Mountain MS	8	Multiple Teachers
Final 2015-2016	Bell Mountain MS	7	Multiple Teachers
Final (with Inactives) 2015-2016	Bell Mountain MS	7	Multiple Teachers
Spring 2016	Bell Mountain MS	7	Multiple Teachers
Fall 2015	Bell Mountain MS	7	Multiple Teachers
Final 2014-2015	Bell Mountain MS	6	Multiple Teachers
Final (with Inactives) 2014-2015	Bell Mountain MS	6	Multiple Teachers
EoY - 2015	Bell Mountain MS	6	Multiple Teachers
Fall 2014	Bell Mountain MS	6	Multiple Teachers

Additionally, SCPPS may use IO Insights to produce a Student Profile Report. The Individual Student Profile represents the most granular level of detail for an individual student, and includes at-a-glance indicators to view EWIS metrics. The profile page displays course grades, transcripts, state assessments, benchmark assessments, graduation/promotional eligibility, student trackers, program schedules, flag indicators (IEP, ELL, etc.), attendance, discipline, learning standards, and biographical information (based on the data provided in the SIS or any additional data imported).

The profile page uses at-a-glance indicators to view EWIF metrics quickly so administrators, counselors and teachers know if student performance in school is at a level to ensure success as they move through elementary school, middle school, high school and into college. The Insights promotional, high school, 9th grade and college readiness trackers provide an easy to read and color

coded report on attendance, credits course and exam grades so they have at-a-glance access to their success in each of these areas.



Student Profile

Student Search

Role: Client Admin - Demo District Sales

Log Out



John Munoz

Sales - Ulysses Grant High School
ID: 910000858
Grade Level: 11
Cohort: 2011

Track Status
Off Track

11th Grade EWIF Metric



Metrics

Biographical

Attendance

Assessments

Grades

Primary Contact

Cindyann Garland
3922 Valley View Drive
Brookline, MA 02146
P: 617-732-8826

Demographics

Gender Male	Date of Birth December 20th, 1997	Admit Date July 2nd, 2011	Homeroom 56C
Cohort Year 2011	Counselor Ms. Smith	Ethnicity White	Home Language NO
English Language Learner X	Special Education X	Related Services X	Resource Room X
Team Teaching X	Economically Disadvantaged X	Performance Level English 2.73	Performance Level Math 3.90
Lowest 3rd City N	Lowest 3rd School N		



John Munoz

Sales - Ulysses Grant High School
ID: 910000858
Grade Level: 11
Cohort: 2011

Track Status
Off Track

11th Grade EWIF Metric



Metrics

Biographical

Attendance

Assessments

Grades

Attendance History 2015 - 2016

Change Year


Month	# In School	% In School	# Out School	% Out School	# Late	# Excused
September	18	81%	4	18%	0	0
October	14	63%	8	36%	0	0
November	16	76%	5	23%	0	0
December	18	78%	5	21%	0	0
January	13	61%	8	38%	0	0
February	18	85%	3	14%	0	0
March	13	56%	10	43%	0	0
April	21	100%	0	0%	0	0
May	11	50%	11	50%	0	0
June	20	90%	2	9%	0	0
July	12	57%	9	42%	0	0
Totals	174	72%	65	27%	0	0

Chart: 2015-2016



Student Profile

Role: Client Admin - Demo District Sales
Log Out



John Munoz
 Sales - Ulysses Grant High School
 ID: 910000858
 Grade Level: 11
 Cohort: 2011

Track Status

Off Track

11th Grade EWIF Metric
 Daily Attendance
 HS Assessments
 High School Credits

Metrics

Biographical

Attendance

Assessments

Grades

Assessment History

School	Year	Semester	Code	Title	RS	SS	PL	DEC
00X001	2014	1	H00UR	USHIST REG JAN	90	90		
00X001	2014	1	SX0XR	LIVENVR R JAN	ABS	ABS		
00X001	2014	2	SX0XE	LIVENVR R JUN	ABS	ABS		
00X001	2014	2	SX0UE	PHSET ES R JUN	76	76		
00X001	2014	1	SX0UR	PHSET ES R JAN	ABS	ABS		
00X001	2014	1	H00GR	GLOB HIST REG JAN	70	70		
00X001	2013	1	H00GR	GLOB HIST REG JAN	ABS	ABS		
00X001	2013	1	M00GR	GEOMETRY REG JAN	ABS	ABS		
00X001	2013	2	H00GE	GLOB HIST REG JUN	ABS	ABS		
00X001	2013	2	H00UE	USHIST REG JUN	ABS	ABS		
00X001	2013	2	M00EE	ALGEBRA REG JUN	ABS	ABS		
00X001	2013	2	SX0UE	PHSET ES R JUN	ABS	ABS		

Student Profile

Role: Client Admin - Demo District Sales
Log Out



John Munoz
 Sales - Ulysses Grant High School
 ID: 910000858
 Grade Level: 11
 Cohort: 2011

Track Status

Off Track

11th Grade EWIF Metric
 Daily Attendance
 HS Assessments
 High School Credits

Metrics

Biographical

Attendance

Assessments

Grades

Report Cards

2015 - 2016 Change Period

Transcripts

Group By

Year: 2011-2012

Year	Term	Course	Title	Credits	Mark
2011 - 2012	7	E22CR	ENGLISH 2	1.00	45
2011 - 2012	7	H22CR	GLOBAL HIST 2	1.00	45
2011 - 2012	2	FS2	SPANISH I TERM 2	1.00	45
2011 - 2012	2	E2C	ENGLISH 2	1.00	45
2011 - 2012	2	SL2C9	LIVING ENV 2	1.00	45
2011 - 2012	2	ME22C	ALGEBRA TERM 2 OF 2	1.00	70
2011 - 2012	2	E2CWRLAB	ENGLISH 2 LAB	0.25	45
2011 - 2012	2	BCC4CLAB	COMP APPL LAB	0.25	45
2011 - 2012	2	ME22CLAB	ALG TERM 2 OF 2 LAB	0.25	70
2011 - 2012	2	H2CWRLAB	GL HIST 2 LAB	0.25	45

IO Assessment allows for the creation of student groups on an ad hoc basis. All reports have multiple filtering options which include but are not limited to district, school, teacher name, course, grade level, gender, ethnicity, Special Education status, ELL status, cohort, and custom groups. Users can choose these filters to create a targeted group of students. Imported data related to the student group may be used for disaggregation of results.



Educators may also use IO Insights to help manage tutoring groups or progress-monitored students. Using both IO Insights and IO Assessment, educators at all levels of the district can quickly gain insight with streamlined data points on one screen and assign individual or groups of students to learning plans. The IO platform streamlines data by allowing multiple data points to be seen on one screen. Educators may then go on to utilize early warning indicator flags to assess which students are on track and which students need assistance. Rather than using outdated end-of-year-data, real time assessment tools are used, allowing educators to access student data on demand to monitor how classes, individual students, or specific groups of students are doing against learning standards.

Individualized student intervention plans based on comprehensive performance data are key ingredients in a high performing school and district. At IO Education, we believe that these two key components---data and plans---need to work together in a tightly integrated way. The IO Insights platform includes a state-of-the-art student intervention case management system that not only allows users to prescribe the correct plans and tasks to students, but also helps educators manage these plans.

The Plans feature allows educators to create custom interventions for students. Student plans are built based on best practice templates developed by the SCPPS. The forms and format of these templates can include simple text, check boxes, multi-select, rubrics, multi-stage digital-signature workflow, etc. Users can also add comments to a form and evidence to the Evidence Board to support student interventions efforts. All plans can be printed and exported.

Multiple educators can collaborate on an individual student success plan. Any assigned team member can leave confidential comments accessible only by plan team members and attach documents to the student's plan. Many file types such as .GIF, .jpeg, .png, .bmp, .tiff and others can be uploaded individually as evidence. As users populate the plan over time, a complete online portfolio of activity is built for each student. The Plans feature includes a comprehensive notification engine that automatically sends email reminders and notes to users to ensure that plan team members stay on track and complete all of the required tasks for every student plan.



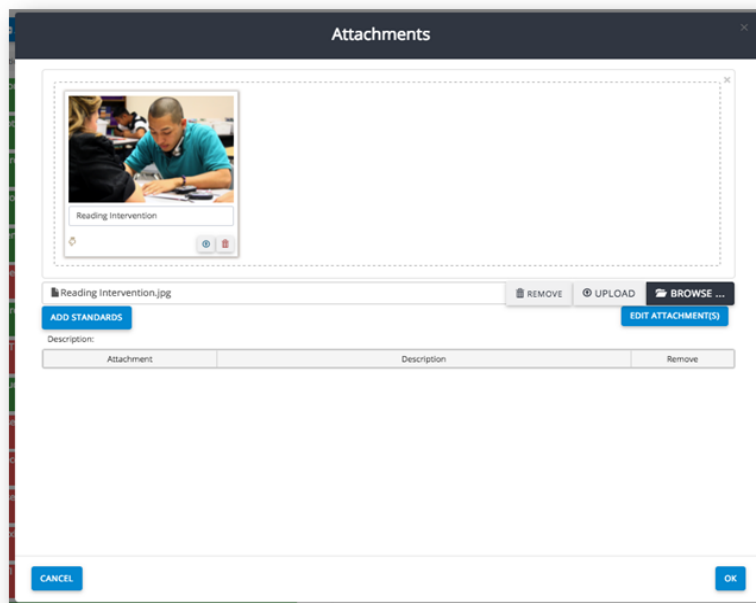
INDIVIDUAL STUDENT INTERVENTION PLANS



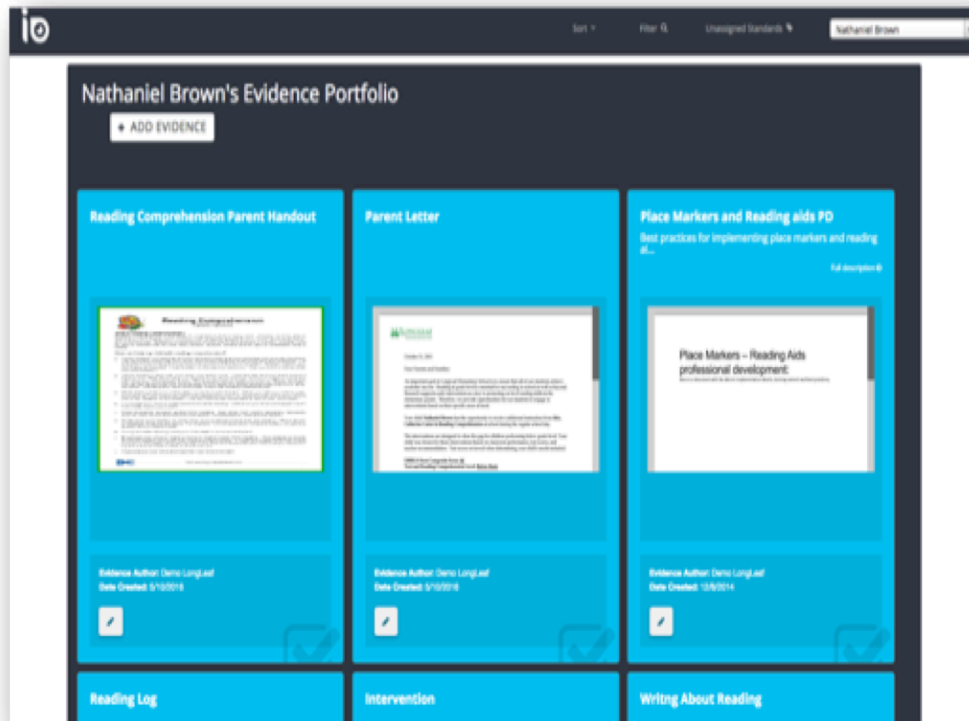
Within the IO Insights solution, multiple educators can collaborate on an individual student success plan. Any assigned team member can leave confidential comments accessible only by plan team members and attach documents to the student's plan. Many file types such as .GIF, .jpeg, .png, .bmp, .tiff and others can be uploaded individually as evidence.

As users populate the plan over time, a complete online portfolio of activity is built for each student. The Plans feature includes a comprehensive notification engine that automatically sends email reminders and notes to users to ensure that plan team members stay on track and complete all of the required tasks for every student plan.

Attachment Upload to Student's Evidence Board



Student Evidence Board



- Hardware and Software:

- o must be compatible with multiple operating systems, browsers

Confirmed

- o must be able to operate on multiple devices (ie, iPads, ChromeBooks, PCs, laptops)

Confirmed

- o could have an app for mobile devices

Confirmed

- o must interface with PowerSchool
 - but does not change student information

Confirmed

- o may be hosted on hardware of the school district or the vendor. If district owned hardware, please provide specs and include in the cost proposal.

Hosted by IO Education

- o must have hardware in sufficient numbers and with capabilities to support sustainability of data for 5 years

Confirmed

- o must include all hardware needed (do not assume that the district has servers, scanners, etc.)

Confirmed

IO Education's specialization in web-based solutions means there are no software requirements, reducing the need for technical coordination or updating system capabilities across access points.



The IO Education platform is compatible with mobile devices including Microsoft Surface, iPads, Chromebooks, and Android devices. IO Assessment can be used with all device types, and with all types of screen sizes. Our platform will automatically format to any screen. In addition, IO Assessments can be accessed using all current browsers, Chrome, Safari, IE (updated versions), and Firefox. If using paper scanning services IO's LSO software is compatible with most TWAIN compliant scanners.

Our web-based platform provides accessibility at any time from any internet access point. Users may securely enter the password-protected portal for access to their personalized portfolio via the internet from anywhere. IO Education's specialization in web-based solutions means that there are no software requirements, reducing the need for technical coordination or updating system capabilities across access points. IO Education's dashboard application is compatible with multiple, current, industry supported browser versions. Supported web browsers and devices include, but are not limited to:

Web Browsers:

- Microsoft Internet Explorer (Version 8 and higher)
- Mozilla Firefox (Version 3 and higher)
- Opera (Version 10 and higher)
- Safari (Version 5 and higher)
- Chrome (Version 7 and higher)

Devices/Platforms:

- Microsoft Windows (Vista, 7, 8, 10, 2003, 2005, 2008, 2010)
- Mac OSX (10.4 and higher)
- iPhone/iPod Touch/iPad (3.2, 4.1 and all Apple-supported versions)
- Android (multiple device types and versions)
- Blackberry (multiple device types and versions using built-in browser)



3. Ease of Use / Effectiveness / Efficiency

Describe features included in your product and services that contribute towards its ease of use, effectiveness in carrying out the tasks at hand and efficiency within an office setting. This system will be used by multiple stakeholders of varying technology skills and assessment knowledge.

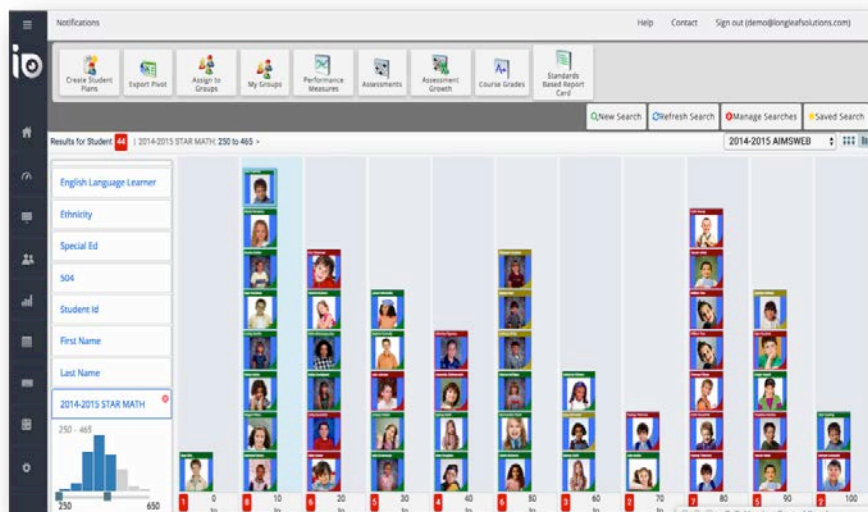
At IO Education we pride ourselves on the ease-of-use of our products and services. As a company founded 18 years ago by teachers, for teachers, easy-adoption has always been imperative to our mission.

We know that in most K-12 school districts, valuable data is spread out among many different systems and platforms making it virtually impossible to make data-informed decisions. It is often too difficult, time consuming and expensive to be sustainable and effective. The end result is that educators spend too much time trying to gather this disparate data and not enough time deeply analyzing it to gain the wisdom needed to take action.

Virtual Data Wall

One of our solutions to this problem is our Virtual Data Wall. The IO Insights Virtual Data Wall is a user-friendly data view centered on student pictures using the familiar faces that teachers and educators see every day. In a handful of clicks, a user can view an entire class or school and group and analyze students based on any performance data such as attendance, discipline, course grades, and assessments. All data in this visual analytics experience can be exported in one click providing limitless opportunities for ad hoc and customized reporting.

Virtual Data Wall with AIMSWeb and STAR Math Cross Analysis



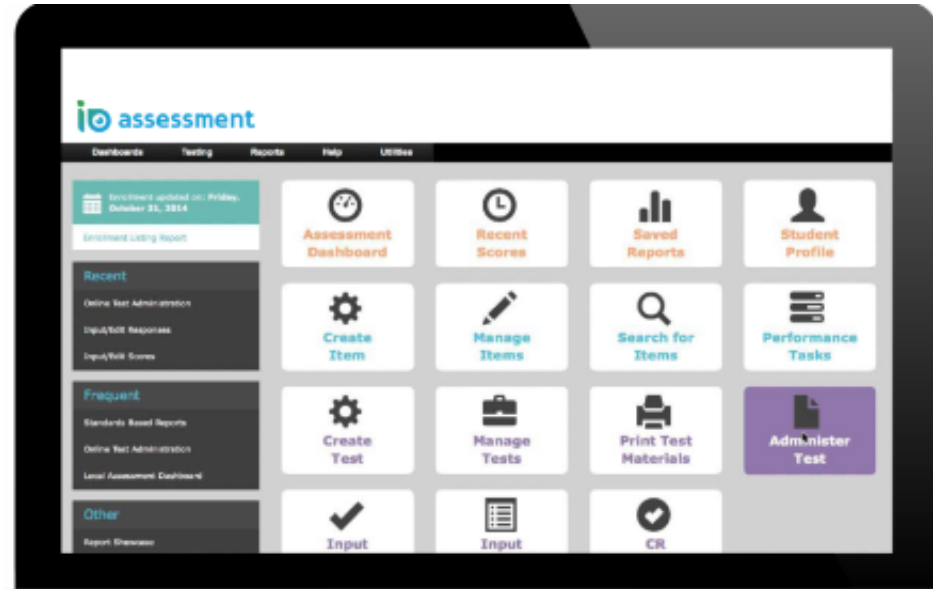
We believe that all data analysis should lead the user to take action. In just one click directly from the Virtual Data Wall, users can put students on individual success plans based on best practice templates provided by the district.

When analyzing student performance, assessment data is a critical component to determine what actions need to be taken when planning for student success. Assessment data is voluminous and exists in multiple disparate and siloed systems, from dashboards to intervention products that provide assessments, to individual Excel spreadsheets. IO Education consumes all types of assessment data from any source, allowing educators to view and analyze assessment data in a single data environment. Users can also calculate assessment growth values to determine which students have improved over time and which students have not, which is important in determining if the prescribed intervention plans are working as intended.

Flexible Interface

IO Education consumes all types of assessment data from virtually any source, allowing educators to view and analyze assessment data in a single data environment. IO Insights has a consistent, intuitive, and flexible interface that creates a data environment that is easy to navigate and enables end users to interact with data flexibly, drilling down from the school to the classroom or student level and disaggregating data by a wide range of student characteristics.

IO Education's Assessment platform is deliberately designed to provide a straightforward and reliable tool that gives educators the data they need to inform instructional practices and, importantly, does not overwhelm them or add additional stress to their day. Users are able to access all district electronic data sources in one easy-to-navigate seamless platform shown below:



The IO Education solution is constructed to purposefully allow educators to access seamlessly integrated SIS, student performance, assessment, teacher evaluation, district operations, and form/survey/plan data. Our data management and analytics platform modules are designed to interact with one another. In this way, we provide the right data to the right educators at the right time so the data is used most efficiently.

The IO Insights Platform serves as a unifying hub for all student and teacher data that flows into and throughout the IO modules (IO Insights and IO Assessment as well as the optional modules for Talent and Operations). Data available in one module will be available in all modules to ensure maximum efficiency for St. Charles Parish Public Schools.



4. Implementation Plan

The district desires to have this project ready for the beginning of the 17-18 school year. Describe your implementation plan in detail. The action plan, at a minimum, should include a description of the action steps, timeline(s), and the critical players required to complete each action step. Identify the critical players as employees from your firm, sub-contracted employees or from the school district.

At a minimum include the following action steps:

- Procurement
- Installation
- Upload of student data from prior system exports (exports will be provided by the district).

The district would like to upload 3 years of prior state and local assessment data.

- Account setups
- Professional Development

IO Education will work with SCPPS to create an implementation plan that meets the district's timelines. The start of the implementation process includes our implementation specialist reviewing and learning your systems and data to ensure that the IO Education team and the district have the same expectations of how the data will be loaded and interpreted by our solution.

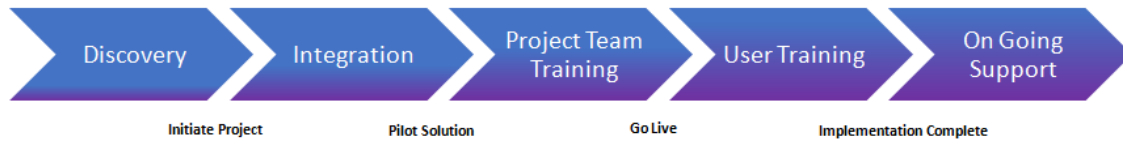
As part of the implementation process the IO Education team will meet on-site with all the key stakeholders for the project to determine the best way to configure the software to meet the district's specific needs. During these meetings, the district current business processes will be reviewed to determine the best way to utilize the application. This often uncovers business processes that need to be modified or established. IO Education will work with the district to establish and document these business processes to make the implementation of the application to end users much more meaningful and easier to grasp. It should be noted that configuration within the IO Education application is extremely flexible and may change over time as the district's needs change. The configuration process will be reviewed on a recurring basis to ensure that the configuration remains optimal to the district's needs.

Upon the completion of the configuration consultation the IO Education team will create detailed documentation of the entire configuration and design decisions agreed upon by the stakeholders. This documentation will be maintained as part of the overall implementation plan



and will be available directly in the IO Education application for quick reference at any time by the project team. These documents will remain living documents throughout the duration of the project to be reviewed and modified as needed.

IO Education Implementation Process



IO Education uses a proven project management method to ensure each partner's success. The Implementation Manager will lead the team and coordinate all required resources.

The IO Insights implementation process is divided into five milestones (note – see attachments for IO Implementation milestone checklist):

1. Discovery
2. Data Import and Setup
3. Validations and System Admin Training
4. Training
5. On Going Support

Milestone 1: Discovery

Discovery has two key parts:

1. Implementation Discovery Call

The implementation Discovery Call kicks off the implementation process and will be scheduled immediately following the award of the contract to IO Education. This Discovery Call is a thirty to sixty minute conference call between your IO Education Implementation specialist, the school partner's designated Project Manager, and any key district stakeholders responsible for rolling out IO Education's software solutions. The implementation process will be reviewed, key objectives and goals will be confirmed, the Data Setup Call will be scheduled, and next steps will be defined.

2. Data Setup Call

Following the Discovery Call, the Data Setup Call will take place to review IO Core data requirements, the process for submitting data, data import timelines, user/LDAP setup, specific technical requirements, and address any data related and technical related needs and questions

from the partner. After the Data Setup Call, the partner will be provided *FTP* access and *IO Core File Specifications Guide*.

Milestone 2: Data import and Site Setup

Following the Discovery and Data Setup Calls, the partner will provide the required data files.

- Upon receipt of all required files, IO will begin the build of the Insights database and site.
- Data will be reviewed, translated, and imported. Feedback will be provided to clients as data inquiries and issues are made and discovered.
- This typically is an iterative process as the clients provide data, the IO Data Integration provides feedback to the client, data updates and translations are made as appropriate, and data is imported into the site.
- Users will be setup and designated with appropriate rights (partner administrators, school administrators, support staff and teachers).

Milestone 3: Validation and System Admin Training

After the initial IO Core data sets are imported, a data validation meeting will be scheduled.

- IO and partner will review the district's data imports.
- IO Education team will make any required changes.
- User and system management will be addressed.

Milestone 4: Training

See Section 5 for training details and see attachments for Train-the-Trainer Guide.

Milestone 5: On-going Support for Project Manager

As initial trainings are held, IO Education Implementation Specialist will provide partner project leaders:

- Webinar trainings to review key areas of systems and address needs as they arise.
- Review user trainings to ensure participants are successful.
- Host frequent calls to address and solve issues, discuss recent revisions, and ensure implementation is on-track for successful rollout.
- Continue to define processes and procedures to support overall district rollout.

On-Going Data Imports

The district will continue to have data import needs.

- All IO Core Data imports and agreed upon assessment imports will be sent to data@ioeducation.com.



- IO's dedicated data team will service these requests as quickly and efficiently as possible.
- All data imports outside of IO Core and agreed upon assessment imports are first reviewed and agreed upon with the district's Implementation Specialist to ensure expectations are well defined and clear for both teams.

Day-to-Day Support

The partner Project Manager and agreed upon team can contact the IO Support Team for immediate responses to general inquiries, software support, issues that arise, etc.

SAMPLE Implementation Process Timeline

What	When	Length
Contract Awarded	June 1, 2016	Not applicable
Discovery Call	June 4, 2016	30-60 minutes
Site Setup	To begin upon receipt of partner's data, done by IO Education	Two-six weeks from the date the data is received
Data Validation	On bi-weekly implementation calls	Two-four weeks depending on scheduling
Initial Onsite Training of District Core Team	No less than one week after validation of data	One week
Administrator Trainings	No less than one week after District Core Team training	
Train-the-trainer Course	No less than one week after Administrator Trainings	2-3 sessions, spread over several weeks
Follow up Training Webinars	Three weeks after the initial training sessions	One hour session
Support for Project Managers	Ongoing	Ongoing

As part of the implementation process, IO Education will upload student data from prior system



exports. Staff will review the source system and possible file formats to determine the most effective and efficient method to ingest the data into the IO Education platform.

IO Education understands and confirms that SCPPS will be able to upload 3 years of prior state and local assessment data. Because EADMS (now IO Assessment) has been in use in the district, much of that data is already in the system. Any additional information will be added.

Implementation Key Success Factors

We have observed key success elements from working with a wide variety of public school districts over many years. These inform our overall philosophy as we seek to make the partner's implementation highly successful. While there are many key factors that cause success, here are several best practices to consider.

Vision/Goals: A clearly articulated, shared vision is the single most important success factor.

- Are goals and expectations developed?
- Are goals and expectations clear at every level? District, Site Admin, Teacher?
- District plan is communicated, understood to all involved staff?

Deep Experts, On-Going Training: Successful districts develop deep experts across the district and at every site.

- Ideally every person who uses IO will be an expert in the area(s) they are expected to use/know.
- At a minimum, experts need to be identified at every site and provided the resources to be successful.
- Opportunities for expanding learning and going deeper are made available throughout the year.
- Districts provide on-going training opportunities through a variety of formats.
- Training is made a priority year after year.

Use Meaningful Data: Administrators and teachers derive and use meaningful data to drive and inform education practice and classroom instruction.

- This could include test results, standards performance, etc.
- This information is used to reflect on and modify practice.
- Colleagues collaborate to share best practices.

Communication: Communication throughout the implementation is critical. We strive to provide implementation best practice guidance and expertise about our systems. In turn, the district must ensure their needs, key information, and expectations are articulated throughout the implementation. Over communication is preferred.



Implementation Key Stakeholders

The following key stakeholders in the IO Insights implementation process are the most important part in our communication process. At IO Education, we take pride in our teamwork and will pull in additional staff and experts as the project requires.

IO Education Stakeholders

- **Customer Success Implementation Specialist**
Responsible for guiding the partner through the IO implementation process, doing all required/agreed upon trainings, and ensuring the overall success of the client.
- **Data Integration Specialist**
Responsible for reviewing IO data process and data spec guides, supporting successful import of client data, and provide ongoing data feedback to client.

Partner Stakeholders

- **Project Manager**
District lead responsible for the overall implementation and rollout of the project.
- **Assessment Lead**
District lead responsible for district assessments and can provide leadership and raw data exports for all agreed upon assessment imports.
- **SIS Expert**
District expert in the district's SIS and can provide all required data from the SIS and in general support a success rollout of Insights.
- **Technology Lead**
As is necessary, district lead who can support data imports, IO software setup, and overall technology implementation support.

Additional Key Stakeholders

Other key stakeholders/leaders the partner feels will be instrumental in ensuring a successful rollout across the school district.



5. Professional Development

Describe your professional development plan for training district employees on all the various aspects of the system. Include PD models for technical systems, classroom/school users, district administrators, etc. Describe all available PD ie, face-to-face, follow-up, video-archives, web based, research-based practices for assessment, etc.

At IO Education training is an important milestone in our Implementation process. Successful adoption of our system goes hand-in-hand with our training program and each district's ongoing training. We do our best to help teachers, principals, coaches, specialists, program and district administrators understand how to successfully use the IO Education suite of solutions, and more importantly, how IO Education will support SCPPS priorities.

Opportunities for expanding learning, reviewing essential practices, and connecting to key district initiatives are made available throughout the year in a variety of formats: direct training, PLC conversations, staff meetings, webinars, videos, help documents, etc. SCPPS will also have access to an IO project team dedicated to providing ongoing communications and supports.

Training

IO will design a custom training schedule to best meet the needs and long-term goals of the district. Here is a sample of some of core trainings generally provided to a district:

First Onsite Core Team Training

After the IO Core required data is ready and data validation has occurred, the first onsite district training will be scheduled with the district core team. The following are covered:

- Overview of Insights system including the Virtual Data Wall and Dashboards
- Review data imports and provide feedback to IO as adjustments are needed.
- Review of next steps in the project
- Schedule Administrator training

Administrators

Training for key administrators including district admin, principals, TOSA's, etc.

- Overview of Insights including Virtual Data Walls and Dashboards.
- Analyzing student key demographics, assessments, and progress.
- Assign students to tiers, track student progress, etc.
- How to access and interpret Assessment reports on varying levels (district, school, etc.)
- Discuss next steps in the implementation

Train-the-Trainer



- If agreed upon, this training course is provided to partner's key trainers.
- IO Education will run hands-on sessions for trainers.
- Highlights of the training will include how to create operate the Virtual Data Wall and Dashboards, and when ready, Metrics.
- Provide hands-on practice and training preparation.
- Develop a comprehensive training schedule with district admin team and trainers.

Sample Training:

Sample Training	Training 1	Training 2	Training 3
Start	9/3/2017	9/15/2017	10/30/2017
End	9/15/2017	9/30/2017	11/14/2017
Duration	3 days	1 day	2 days
Work	Begin Staff Training	Extra Admin./Online Training Support	Staff Training <ul style="list-style-type: none"> • New staff • Review w/ veteran staff
Participants	<ul style="list-style-type: none"> • District Trainers • Teachers • Administrators • Data Spec. • School Psych 	<ul style="list-style-type: none"> • District Trainers • Teachers • Administrators • Data Spec. • School Psych 	<ul style="list-style-type: none"> • District Trainers • Teachers • Administrators • Data Spec. • School Psych
Trainers	IO Ed Trainers IO Ed Project Manager Dept. Project Manager Training Specialist	IO Ed Trainers IO Ed Project Manager Training Specialist	IO Ed Trainers IO Ed Project Manager Dept. Project Manager Training Specialist
Description	IO Ed Integrated Student Data Management System Training provided in-person (with additional online support available). Staff learns to enter data and access all reports.	Live webinars or in person additional administration training and support as needed.	IO Ed Integrated Student Data Management System Training provided in-person (with additional online support available). Topic of training to be determined with SCPPS

6. Maintenance / Support

- If hosting data, describe the protection that you have in place to ensure that the hosted data is secured and only updated by those individuals who have the rights to do so.
- If hosting data, describe your business recovery plan, backup processes, etc.
- If the data is on-site, what backup processes or redundant systems are recommended?
- Tell how often updates are performed. Will all updates be automatic or will there be opportunity for the district to time updates for convenience.
- Describe your support technical support system. Include hours of support, average time of downtime annually, average turnaround time on support issues, and support tier system (if applicable)

At IO Education, the privacy and confidentiality of student data and the standards that support that privacy and confidentiality are of utmost importance. Any technology solution developed, implemented and maintained by IO Education is fully compliant with State and Federal law. IO Education ensures that all sites and technology developed fully adhere to FERPA, COPPA, and PPRA regulations. All of IO Education's solutions leverage a role-based architecture designed to specify user access and permissions.

Role-Based Access Permissions System

The role-based architecture assigns each user to a specific role within the site that will intentionally limit features and functions, as well as corresponding data available to that user. If users are not authorized to view certain pages of the portal, the user account will be locked, an alert transaction will be logged to the audit trail, and a system administrator will be notified.

Individual Accountability

All usernames and passwords are associated with both a unique email address and specific user profile. Email addresses are verified using a token-based approach to account activation. All automated password reset functionality is then tied to the activated email address for each user account. All user accounts in IO Education developed web sites are assigned an internal globally unique identifier (GUID). IO Education will map our established processes for individual



IO Education's standard customer agreement SLA is 99.9% uptime, which has consistently been met and exceeded. We do have scheduled maintenance windows periodically for new releases and system maintenance, which are planned well in advance and always performed in non-school days/hours.

IO Education utilizes a wide variety of automated monitoring systems to provide a high level of service performance and availability. Monitoring tools are designed to detect unusual or unauthorized activities and conditions at ingress and egress communication points. These tools monitor server and network usage, port scanning activities, application usage, and unauthorized intrusion attempts. The tools have the ability to set custom performance metrics thresholds for unusual activity.

Systems within IO Education are extensively instrumented to monitor key operational metrics. Alarms are configured to automatically notify operations and management personnel when early warning thresholds are crossed on key operational metrics. An on-call schedule is used so personnel are always available to respond to operational issues. This includes a pager system so alarms are quickly and reliably communicated to operations personnel. These protocols will allow us to honor the District's requirement for a maximum 30-minute response time to all support requests with a four (4) hour resolution.

Physical and Environmental Security

IO Education utilizes Amazon Web Services (AWS) for physical and environmental infrastructure. AWS's data centers are state of the art, utilizing innovative architectural and engineering approaches. Amazon has many years of experience in designing, constructing, and operating large-scale data centers. This experience has been applied to the AWS platform and infrastructure. AWS data centers are housed in nondescript facilities. Physical access is strictly controlled both at the perimeter and at building ingress points by professional security staff utilizing video surveillance, intrusion detection systems, and other electronic means. Authorized staff must pass two-factor authentication a minimum of two times to access data center floors. All visitors and contractors are required to present identification and are signed in and continually escorted by authorized staff.

AWS only provides data center access and information to employees and contractors who have a legitimate business need for such privileges. When an employee no longer has a business need for these privileges, his or her access is immediately revoked, even if they continue to be an employee of Amazon or Amazon Web Services. All physical access to data centers by AWS employees is logged and audited routinely.

Fire Detection and Suppression

Automatic fire detection and suppression equipment has been installed to reduce risk. The fire detection system utilizes smoke detection sensors in all data center environments, mechanical and electrical infrastructure spaces, chiller rooms and generator equipment rooms. These areas are protected by either wet-pipe, double-interlocked pre-action, or gaseous sprinkler systems.



Power

The data center electrical power systems are designed to be fully redundant and maintainable without impact to operations, 24 hours a day, and 7 days a week. Uninterruptible Power Supply (UPS) units provide back-up power in the event of an electrical failure for critical and essential loads in the facility. Data centers use generators to provide back-up power for the entire facility.

Climate and Temperature

Climate control is required to maintain a constant operating temperature for servers and other hardware, which prevents overheating and reduces the possibility of service outages. Data centers are conditioned to maintain atmospheric conditions at optimal levels. Personnel and systems monitor and control temperature and humidity at appropriate levels.

Management

AWS monitors electrical, mechanical, and life support systems and equipment so that any issues are immediately identified. Preventative maintenance is performed to maintain the continued operability of equipment.

Audit and Certification

The AWS Compliance Program enables customers to understand the robust security in place and then helps them streamline their compliance with industry and government requirements for security and data protection. The IT infrastructure that AWS provides to its customers is designed and managed in alignment with best security practices and a variety of IT security standards, including:

- SOC 1/SSAE 16/ISAE 3402 (formerly SAS 70 Type II)
- SOC2
- SOC3
- FISMA, DIACAP, and FedRAMP
- PCI DSS Level 1
- ISO 27001
- ITAR
- FIPS 140-2

Network Monitoring and Protection

IO Education utilizes a wide variety of automated monitoring systems to provide a high level of service performance and availability. Monitoring tools are designed to detect unusual or unauthorized activities and conditions at ingress and egress communication points. These tools monitor server and network usage, port scanning activities, application usage, and unauthorized intrusion attempts. The tools have the ability to set custom performance metrics thresholds for unusual activity.

Systems within IO Education are extensively instrumented to monitor key operational metrics. Alarms are configured to automatically notify operations and management personnel when early warning



thresholds are crossed on key operational metrics. An on-call schedule is used so personnel are always available to respond to operational issues. This includes a pager system so alarms are quickly and reliably communicated to operations personnel.

Backup Procedures

The backup procedures of IO Education data stores enable point-in-time recovery for any database instance. This allows IO Education to restore a DB Instance to any second during the retention period, up to the last 5 minutes. The retention period can be configured to up to 35 days.

Off-site, Durable Secondary Storage

Long-term secondary data backups are stored in Amazon S3 and designed to provide 99.999999999% durability and 99.99% availability of objects over a given year. Objects are redundantly stored on multiple devices across multiple facilities in an Amazon S3 region. Once stored, Amazon S3 helps maintain the durability of the objects by quickly detecting and repairing any lost redundancy. Amazon S3 also regularly verifies the integrity of data stored using checksums. If corruption is detected, it is repaired using redundant data.

Encryption of Data at Rest

Data in secondary storage can optionally be stored with encryption. IO Education uses one of the strongest block ciphers available – 256-bit Advanced Encryption Standard (AES-256). With this feature, every protected object is encrypted with a unique encryption key. This object key itself is then encrypted with a regularly rotated master key.

Data Destruction

Any data housed in the IO Education system that is no longer useful for its primary or retention purposes is destroyed, making it unusable and unrecoverable.

- 24/7 manned datacenter

The IO Education Amazon Web Services and cloud hosting centers are the best in market for availability, fail-over, disaster recovery and scalability. IO Education maintains automated tools that monitor all our applications and associated services. Our DevOps team is notified 24/7/365 anytime an outage or incident occurs. Response to these types of incidents is immediate.

Quality Assurance (QA) is defined as a management process that governs the quality of deliverables and work products for the project. The IO Education Team maintains a dedicated fully independent internal testing team which handles all primary unit, functional and regression testing. This team coordinates and conducts these tests prior to any product delivery. In doing so the team follows a closely regimented quality process starting with detailed test planning through scripting and execution for all release cycles. In addition to the processes in place the team also utilizes numerous tools through the process including project tracking tools,

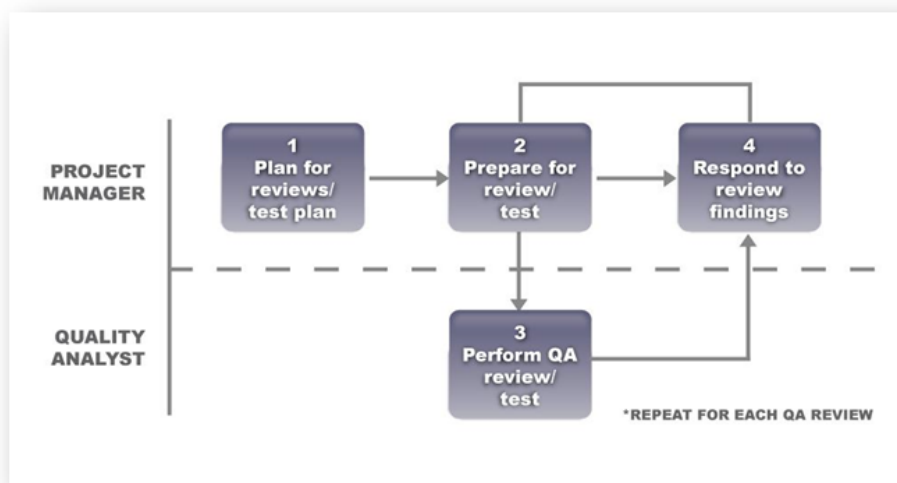


defect/feature management tools, code coverage tools, test scripting and execution tools, among others.

QA personnel conduct reviews to evaluate compliance with the requirements of the project. By carefully analyzing these criteria and evaluating them in independent reviews, we will manage the project to a lower level of risk.

QA practices are designed to control the risks and verify the quality of final deliverables. The IO Education Management Team is responsible for assuring the work produced performs well against the plan and meeting the terms of the contract and district expectations. By including quality management in the day-to-day work, we will have increased control over the quality of work being produced. Problems will be identified early, reducing the risk of major problems involving the quality of work developed in the end. QA reviews will be performed and planned as part of the monthly status report activities.

The figure below shows the IO Education Quality Assurance Process as it will be followed during the project.



Integration testing

When integration is setup/configured or when any changes are made to the integration the IO Education System, engineers will fully test all aspects of the integration. This includes:

- Running the data through the integration process to capture any errors occurred during the integration.
- Working with the district to conduct a sanity check on any data imported into the system before it is released out to the production users

Volume/stress testing

The application goes through continuous volume and stress testing. This includes testing on the application and all applicable databases. We aim to keep the system running optimal at all times. When issues are found changes to the application, database, and/or hosting environments occur.

IO Education maintains a scheduled roadmap mix of major updates, as well as incremental software updates. For major updates, we publish in advance the planned details of the updates and provide training webinars for users on features that are either changed or new. In the case of major user experience changes, we have provided system settings to run a feature in "Classic" mode or the new updated interface. However, most new features and design changes are very intuitive and do not require that type of functionality. In the case of hot fix release or minor incremental updates, we typically deploy those regularly and inform customers with the details of the release as the new build enters production.

User acceptance testing

Identified district users can be notified when a development release is available. This will allow users to test out new features in the application and ensure there are no issues. This is often recommended to ensure that any feature changes that may impact their users can be tested, documentation updated, business processes modified, etc. The district can then provide feedback to IO Education on the changes before the application is released to production.

Full regression testing is completed on every development build before it is released. Once a production build is released to ensure stability an additional round of full regression testing is completed on the production build.

Training materials and system administration materials are updated with each new release. IO Education also conducts webinars for all users prior to each release. This gives users the opportunity to see new features/changes and ask questions. All webinars are recorded and posted on the web to be viewed at any time.

System Documentation is included through several methods:

- System Manuals – IO Education has produced and maintains full system manuals for each product that we offer. These documents provide detailed feature and functionality overviews on the full product suite. They are typically used as reference documents.
- On-line help is available throughout the platform and is context sensitive giving users documentation and videos specific to where they are at in the system.
- Data Warehouse Integration Specifications – These documents outline all of the data elements that we will be integrating from outside systems. They specify the data element name, data types and other important details on the integration.
- Data Dictionary – The data integration specification documents detail all of the data elements that we will be integrating from District systems. In addition, IO Education can produce additional data dictionary documents that can provide more information that the District may require and can outline custom measures that are integrated.



Any project stakeholder or a member of the project team may submit a Change Request containing a definition of the proposed change and a description of the rationale behind it. The Project Directors will drive the decision-making process and will ensure that all the stakeholders who might be impacted by the change are fully involved. The Project Director will also coordinate the set of proposed changes and ensure that the decisions made by the different groups do not conflict with each other.

Tools that will be used to document the Change Request Process include: Change Log, Change Order and Change Request.

The following table outlines the lifecycle of a change request.

Lifecycle of a IO Education Change Request

Change Request Status	Description
Requested	Change request submitted to the application development team.
Approved for design	Functional Team has approved creation of a design specification for the change request based on an initial estimate of effort.
Approved for development	Functional Team has approved construction and testing of the change request based on an approved design specification.
Complete	The change request has been migrated to production.
Deferred	Functional Team has placed the change request “on hold” pending higher priority issues or better understanding of the necessity of the change.
Denied	Functional Team has denied the change request as not being in the best interest of the system or its users.

As part of the Change Request Process, the IO Education Team will provide resources to assist in the prioritization of the requests, which will be coordinated by the Project Manager. These application software fixes and enhancements will be assigned priority based on the standards provided in table on the following page.

Change Request Priority

Modification Priority	Description
P1 – Critical	A Critical priority modification if not implemented, would prohibit the completion of a vital business function. Examples of modifications necessary for the reasonable system viability include: the inability to interface financial data with the Accounting system, inability to process purchase orders and invoices.

P2 – High	A High priority modification is important to the success of the system, but a sufficient work-around exists to permit the continued operation of the system. High priority changes may fall into the following categories: Data Integrity improvement, Data Accuracy, Analysis of Customer Feedback, Positive Impact on Spend.
P3 – Medium	A Medium priority modification has the potential to impact the system, but is not an immediate help or hindrance. Medium priority modifications are targeted at process improvements and efficiencies.
P4 – Low	A Low priority modification needs to be addressed, time and budget permitting. Low priority Modifications are addressed as resources are available.

Scheduling of requested changes will be coordinated with the district by the Project Director who will work with the IO Education Team’s application development team project coordinators and management. As each situation and request is unique a detailed schedule and resolution timeline will be determined and agreed upon by all parties during the change request evaluation process.

Each change request deliverable shall include the following as they apply to the individual request, coordinated by the Project Director:

- Software updates
- Documentation updates
- Training

Quality Customer Service

Customer service is of primary importance when it comes to maintaining and supporting software applications. Our team fully understands the vital importance of excellent customer service, and strive daily to maintain and improve the service level. The team is committed to customer satisfaction and will work with each client to provide the best software solution possible.

Our technical support specialists are located in Murrieta, California, Atlanta, Georgia and New York, New York. Our staff is trained and certified internally through our certification program. We offer toll-free telephone support and email support from 8:00 am - 8:00 pm (EST), Monday through Friday, year round (excluding U.S. federal government holidays). We use state-of-the-art telecommunication monitoring software to track all incoming calls. This allows us to review,



at any time, how many calls have been answered, hold times, how many calls are currently in the queue, etc.

Issue Reporting and Escalation

We have implemented an advanced customer management system to track all tech support issues as well as all other customer activity. Each issue is given a unique identification number that allows the call to be tracked as well as the ability to research historical data. There is an internal escalation matrix when handling incoming calls, which allows the Support Manager to determine the severity of the issue and ensure that the client is immediately directed to the most qualified representative. This is detailed below.

Issues either reported by users or alerts from our automated tracking systems follow the following escalation path:

Priority 4- Low – Inquiry/Enhancement – No performance impact:

The level 1 agent reviews the issue with the user. Questions are answered and issues are investigated by the agent. Once the agent is able to solve the issue, the agent completes the call or emails the user. Solutions are noted within the electronic help desk system. All enhancement requests are sent to level 2 agents to be discussed with development.

Priority 3 – Medium – Minor performance impact:

If after an initial investigation the level 1 agent is unable to resolve the issue, the case is assigned to a level 2 agent for further investigation and the user is notified. After reviewing the issue, if the level 2 agent is able to resolve the issue, the user is notified of the resolution. If a level 2 agent determines there is a software issue, the user is notified and the issue is transferred to the appropriate development team. Level 2 technicians and the development team are in contact through an electronic development room. The development team tests the issue, implements the repair and reports back to the level 2 agent when the issue is resolved. The level 2 agent tests the issue to confirm the issue is fixed. The user is then notified the issue has been resolved.

Priority 2 – High –Partial outage/ Performance slowdown:

Once a call or alert comes in regarding a performance slowdown, all level 1, level 2 agents and the lead development team are notified. The lead development team works on the issue or dispatches and supervises the development team that will work on the issue. Level 2 agents are able to view the discussions between the lead team and dispatched team to be kept informed of all progress. Once resolved the lead development team and the level 2 agents confirm the repair. All individual users who called or emailed regarding the issue are contacted by level 1 and level 2 agents.



Priority 1 – Emergency – System is down:

All level 1, level 2 agents and the lead development team are notified. All available trainers are also notified and answer user phone calls and emails. An email blast is sent to all users regarding the issue. The lead development team works with other development teams to resolve the issue. Level 2 agents are able to view the discussions between the lead team and dispatched team to be kept informed of all progress. Once resolved the lead development team and the level 2 agents confirm the repair. An email blast is again sent to all users regarding the resolution. All individual users who called or emailed regarding the issue are contacted by level 1 agents, level 2 agents or available trainers.

All cases are reviewed by level 2 agents weekly. The review provides the agents with information regarding the topics of inquiries, the average timeframe for resolution and the number of items escalated from level 1 agents. Common inquiries are shared with the training team to inform the training sessions for users.

Issues reported to the helpdesk that a level 1 agent believes will require a development fix are reported to level 2 tech agents. If a level 2 agent determines there is a software issue, the user is notified and the issue is transferred to the lead development team and assigned to the appropriate development team to implement the repair. Level 2 technicians and the development teams are in contact through an electronic development room. The development team tests the issue and implements the repair and reports back to the level 2 agent when the issue is resolved. The level 2 agent tests the issue to confirm the issue is fixed. The user is then notified the issue has been resolved. All software fixes are tracked through an electronic code feed which the lead development team reviews as part of their site maintenance work.

7. Qualifications / Prior Experience

- Provide at least 3 references of projects similar in scope to this project and any other pertinent information on your experience in working with school districts on a large scale similar to St. Charles Parish Public Schools. If possible, include a district in Louisiana.
- Must sign the St. Charles Parish Public Schools Data Sharing Agreement in Appendix B.

As a leader in the education technology industry for over 18 years, IO Education is on a mission to empower educators with data to improve educational outcomes.

IO Education provides a variety of customized programs and systems promoting academic success in schools nationwide. The solutions from IO Education are used in all 50 states by over 7,500 schools, 120,000 educators, and support instruction for nearly 6,000,000 students. Our products are used by teachers, counselors, administrators, and all facets of the school community. To give an example, our product IO Classroom has six million parent and student logins per month.

IO Education currently employs approximately 100 people. Our leadership team brings a wealth of education and technology experience and qualifications to the SCPPS project. Learn more about our leadership team here: <https://ioeducation.com/aboutus/>. With offices in New York, Atlanta, and Charlottesville, Virginia (and remote employees across the country) we now have employees who are positioned to support our clients nationwide.

We have worked with every size school district in the U.S. Our deep experience in the K-12 sphere has given us the understanding that no two districts have the exact same needs. Urban, rural and suburban districts each face their own unique challenges, especially when it comes to resource use and allocation. Our experience and knowledge of building reports and dashboards for such a large variety of clients has helped us learn how to ask the right questions to help educators build and use the tools they need specifically for their school community.

As requested, below are references of school districts with similar size and scope to SCPPS, including one district in Louisiana.

McKinney Independent School District
McKinney, Texas



Contact: Geoff Sanderson
Title: Chief Program Evaluation Officer
Email: gsanderson@mckinneyisd.net
Phone: (585) 402-5777
District Info: K-12 / 24,616 students
IO Services: IO Insights
Time Client: 6 months

East Baton Rouge Parish Public Schools

Baton Rouge, Louisiana

Contact: Elizabeth McElwee
Title: Assessment Specialist
Email: emcelwee@ebrschools.org
Phone: 225-226-7981
District Info: K-12 / 42,793 students
Products: IO Assessment
Time Client: 3 years

Pomona Unified School District

Pomona, California

Contact: Silvia SanMartin
Title: Director of Assessment and Accountability
Email: silvia.sanmartin@pusd.org
Phone: 626-201-7391
District Info: TK-12 / 30,000 students
Products: IO Assessment
Time Client: 8 months

Lee County Schools

Opelika, Alabama

Contact: Dr. James McCoy
Title: Superintendent
Email: McCoy.Mac@lee.k12.al.us
Phone: 334-705-6000
District Info: K-1 / 8900 students
Products: IO Insight, IO Talent, IO Operations
Time Client: 3 years



