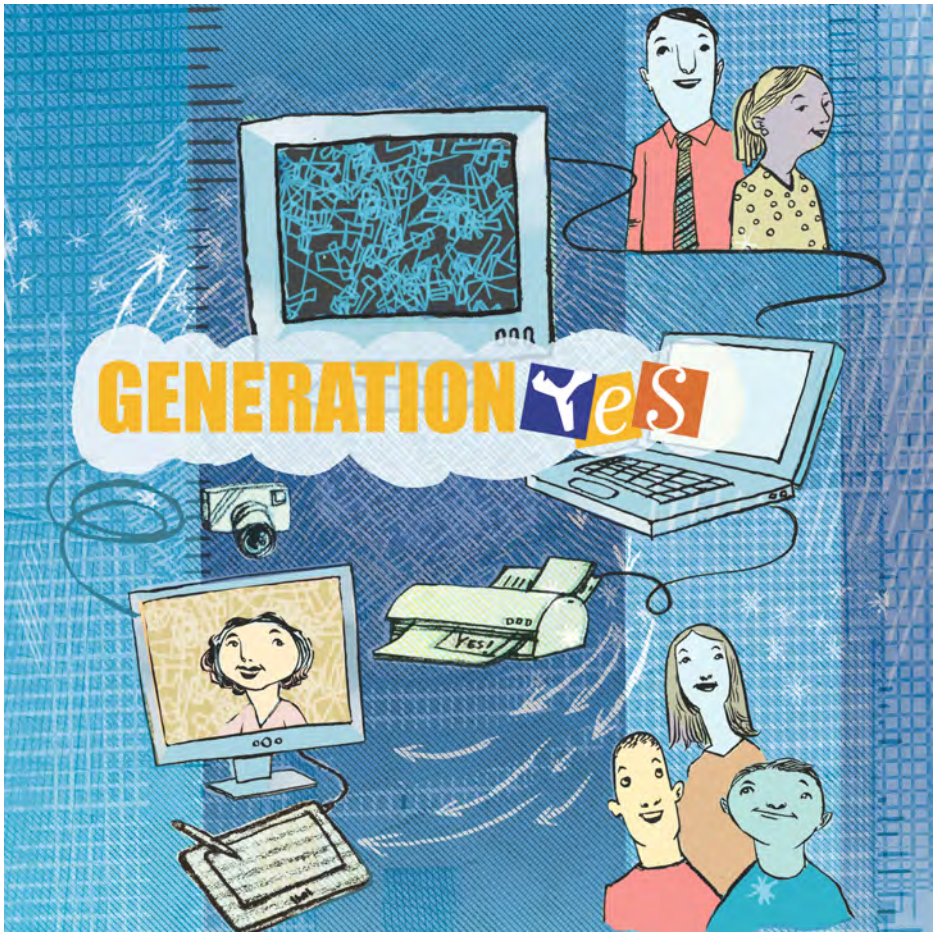
Project Based Learning Management Environment

TechYES



How TechYES features flow from a project's start to finish

TechYES at a Glance

TechYES was completely designed and created from the ground up by the nonprofit Generation YES organization. TechYES meets the needs of today's schools looking for a cloud-based learning system that addresses Common Core, ISTE NETS, and other academic standards through the construction of creative, comprehensive, and technology-infused projects.

In this guide...

Follow a typical TechYES project from beginning to end. Projects can address standards in any subject area at any grade level. Completed projects are assessed against a teacher created rubric to determine proficiency for both academic and technology standards.

1. Create a Lesson Plan

Why?

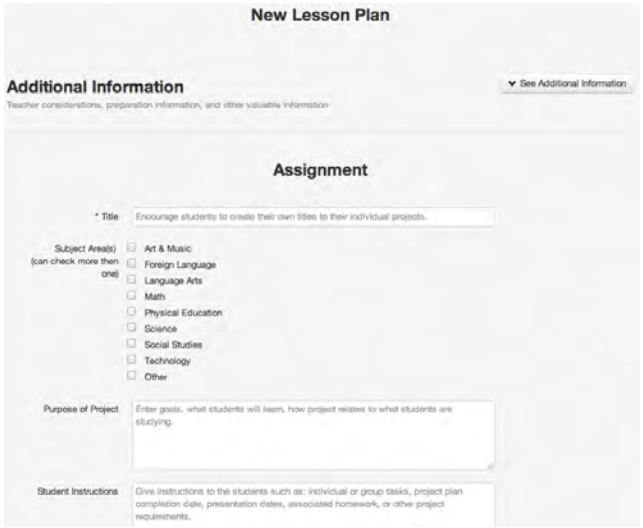
Teachers know that projects create deep learning opportunities. To start students on the right track, teachers can use TechYES to create a lesson plan to outline learning outcomes and provide student direction. These lesson plans:

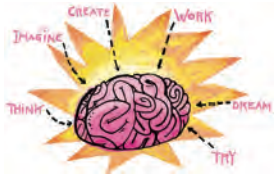
- Provide guidance and structure to a project-based lesson
- Can be shared with other teachers and edited to create future lessons
- Generate assignments that are sent electronically to students

What?

When teacher selects “New Lesson Plan” they complete optional fields that include:

- Project Title • Project Purpose • Student Instructions • Resources
- Common Core Standards Addressed • Performance Objectives
- Teaching Procedures • Adaptations for the Learning Disabled and Gifted
- Individual and Group Tasks





2. Create an Assessment Rubric

Why?

TechYES provides built-in technology and Common Core rubrics for student-created projects. Technology literacy is assessed against the ISTE NETS standards for students. The teacher can create a customized rubric as part of the lesson plan to set project goals for all students. The rubric:

- Provides a customizable list of assessment criteria
- Is passed along to students so they know how their project will be judged

What?

A teacher creating an assessment rubric chooses from a list of criteria that includes:

- Academic Content • Project Plan • Content Accuracy • Originality
- Information Sources • Oral Presentation • Language Mechanics
- Self Assessment • Working with a Team • Tech Integration

Project Rubric

Assessment Criteria	Points	Minimum	Maximum
Academic Content	0	Demonstrates a concept that has nothing to do with the assignment.	Demonstrates a valid academic concept and can explain the material involved.
Plan Project	0	Does not understand task and did not create plan.	Understands task and creates necessary TechYES project plan to achieve task.
Gather, Organize, Construct, Share	0	No evidence that GOCS were used.	Student can explain how they used the GOCS project creation.
Organization of Final Project	0	Project is unorganized and difficult to follow.	Project is very organized and flows.
Accuracy of Project Content	0	Project content is completely incorrect.	Project content is completely correct.
Technology Integration	0	Technology not used effectively to achieve.	Appropriate technology deployed.

3. Plan and Create Student Projects

Why?

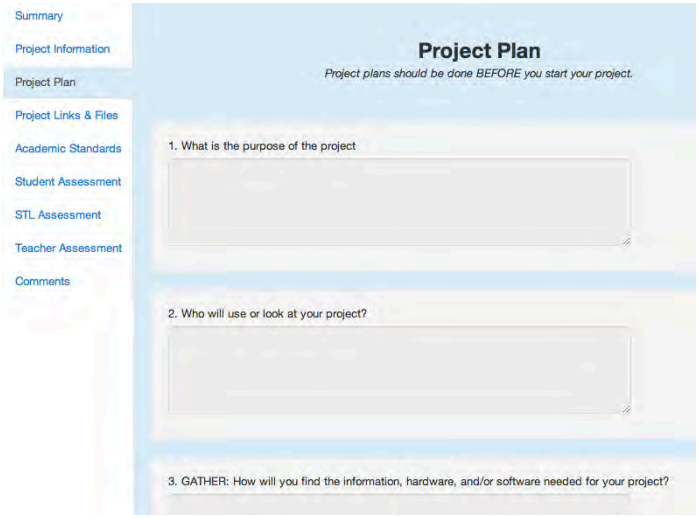
Once the lesson has been created and an assignment generated, students can automatically create a new project that carries the instructions and assessment rubrics. Project planning is critical because:

- Planning a complex project is a valuable skill for students
- Planning makes for better projects
- Teachers can assess and comment on plans
- TechYES analyzes plans and pre-populates teachers' NETS assessment

What?

When a student selects "New Project" they complete fields that include:

- Project Description • Due Date • Technologies Used • Project Purpose
- Project Audience • Why Project Will Be Creative • Data Collection
- How Technology Will Be Used to Gather, Organize, Construct and Share



4. Align Projects to Standards

Why?

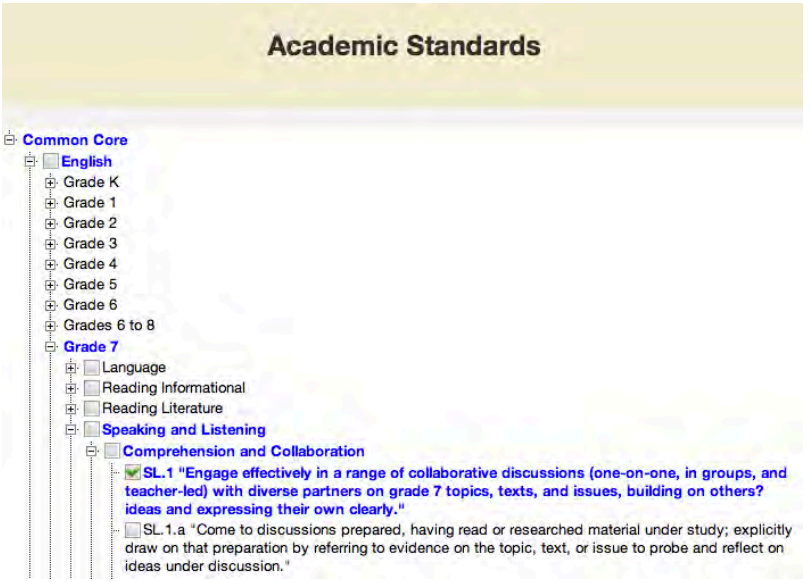
All TechYES projects address one or more Common Core, ISTE NETS•S, and/or other academic standards.

- Educators can verify standards are being met through the project
- Students know why they are doing this assignment
- Teachers and administrators can see how many projects and students are meeting individual standards through a project.

What?

Common Core and ISTE NETS•S standards are embedded into TechYES.

- Teachers select standards that students will address in their projects
- Selected standards are automatically entered into a student's project plan
- Projects are authentically assessed based on meeting these standards



5. Store Projects in Student Portfolio

Why?

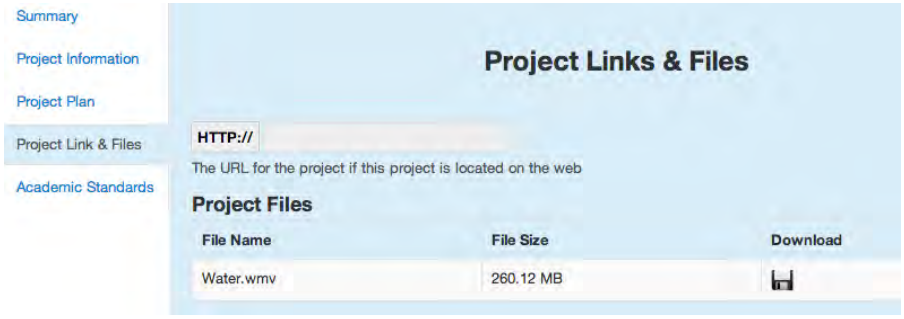
Once a project has been constructed, students upload either a link to the project or the actual project onto the TechYES website. This provides:

- The ability for students and teachers to view and assess projects online
- The ability for many students and educators to view projects and get ideas
- For the creation of an individual portfolio where students can place all their projects to show others. One can look at improvement over time.

What?

Students enter a link or upload a file into their TechYES project portfolio:

- Up to 2 GB per student per year
- Only student and related educators can see a student's project
- Students have access to projects over semesters and years
- Projects in portfolio can be accessed from any computer or from home



6. Assess Academic Achievement

Why?

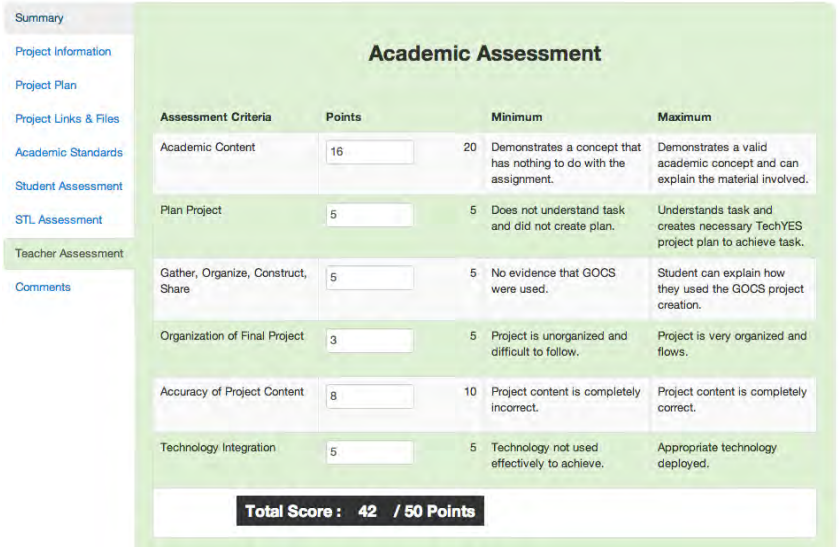
TechYES provides an alternative to standardized tests by providing a method to assess achievement through projects. Learning by doing with projects creates deeper learning and is better pedagogy than learning by memorizing or watching videos and lectures. TechYES is a powerful way to meet the technology-infused expectations of the Common Core.

- Projects are tagged with Common Core standards
- Each project has a customized teacher created rubric

What?

Both the student and teacher assess a TechYES project on how well they meet Common Core and/or other academic standards:

- Students use a standard set of assessment questions
- Teachers use the customized academic rubric they created



7. Assess ISTE NETS Proficiency

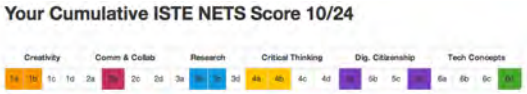
Why?

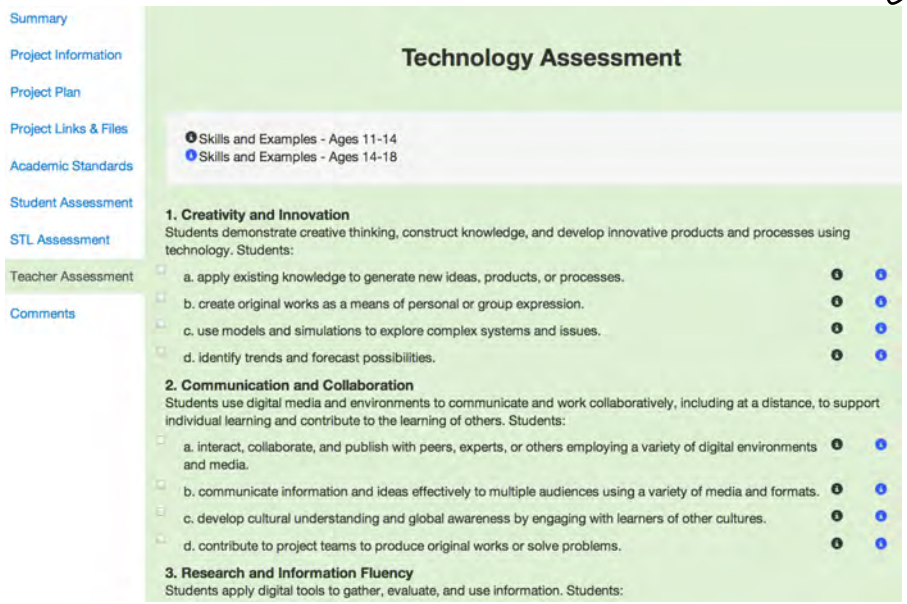
Using today's technology to create original projects is a given for the 21st century classroom. The 24 ISTE NETS for Student Performance Indicators are an internationally recognized standard for technology proficiency.

- Original projects let students create with engaging technology
- Ensuring all students are technology literate is a national goal
- Common Core technology requirements must be met

What?

TechYES ensures Technology Literacy Assessment by providing an ISTE NETS score. When a student's cumulative projects show mastery of 21 ISTE NETS performance indicators they are considered TechYES Certified.





8. Showcase Exemplary Projects

Why?

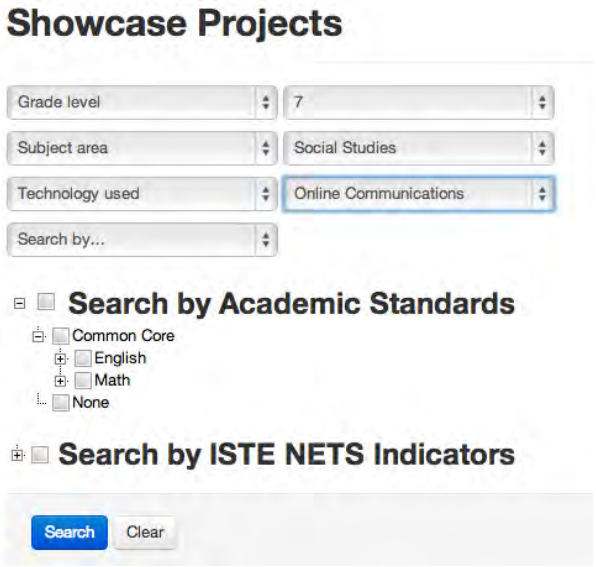
Teachers determine whether a TechYES project is truly exemplary and worthy of inclusion in the Showcase. These showcase projects:

- Provide recognition to students who create outstanding projects
- Let students see examples of exemplary projects meeting specific criteria
- Provide teachers with lesson and project ideas
- Can be used by teachers as learning resources

What?

When a teacher completes their academic and technology assessment, they can use the TechYES Showcase Guide or their experience to determine a project's Showcase worthiness.

- The student who created the project must give his or her permission for the project to be viewed by all TechYES students and teachers worldwide



Support for Teachers & Students

Why?

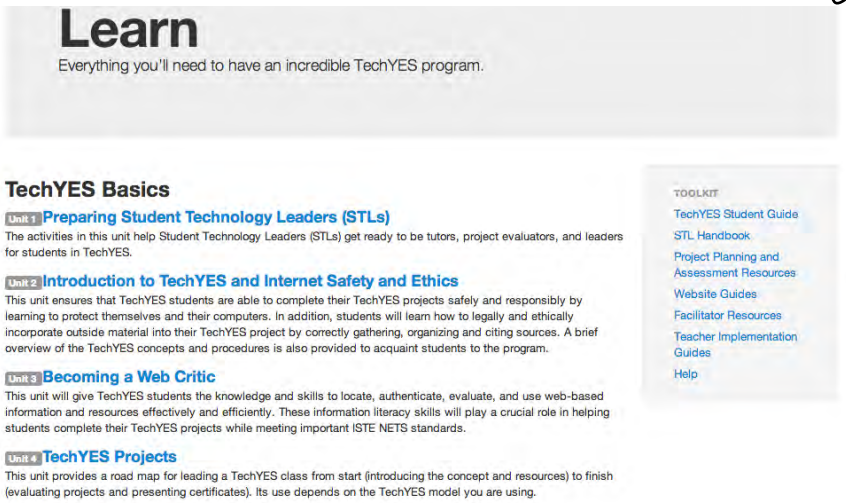
Generation YES has 15 years of external research that high quality support and resources are necessary for success. Research has shown:

- The more a school trusts a group of well-prepared Student Tech Leaders (STLs) to provide support, the better that school performs academically
- In context support embedded on the TechYES website is critical
- Onsite workshops and camps for teachers and STLs improve success

What?

TechYES support comes from:

- STLs who help their peers integrate technology into their projects
- STLs who assess completed projects prior to teacher assessment
- Extensive online curriculum and resources for students and teachers
- Optional face-to-face camps and workshops for STLs and teachers



TechYES Reports

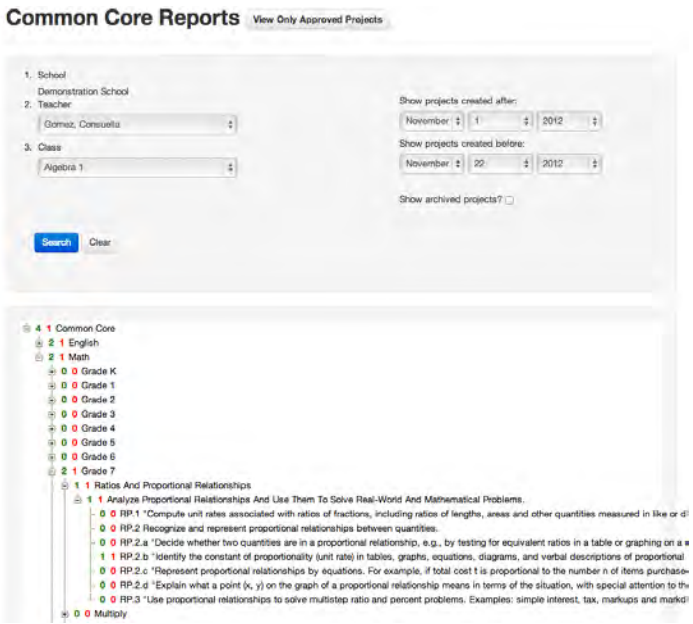
Why?

Customized reports provide real time feedback to teachers and administrators at the school, district, educational service center, state and national level. Following are examples of some of the many available reports.

- Student data can be imported into the TechYES system
- TechYES reports can be exported into CSV files

Common Core Report

This report provides information on how many students have met any given Common Core standard through their project. The green number next to a standard indicates the number of projects that address that standard and the red number shows the number of students addressing that standard. When you click on the number a list of projects or students appear. This provides a powerful alternative to standardized testing.

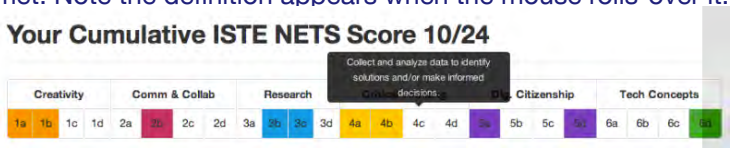


TechYES Reports

(continued)

ISTE NETS Student Report

The student Dashboard shows which NETS Performance Indicators have been met. Note the definition appears when the mouse rolls-over it.



Project and Student Reports

Percent Projects by Subject (a project may address multiple subjects)

Science	Math	ELA	Social Studies	Other Subject	No Subject Listed/Tagged
100.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Download CSV

Total Projects by Subject (a project may address multiple subjects)

Teachers	Science Projects	Math Projects	ELA Projects	Social Studies Projects	Other Subject Projects	No Subject Listed/Tagged	Total Approved Projects
1	4	0	0	0	0	0	4

Percent Projects Hitting ISTE NETS Indicator

1a	1b	1c	1d	2a	2b	2c	2d	3a	3b	3c	3d	4a	4b	4c	4d	5a	5b	5c	5d	6a	6b	6c	6d
100	100	0	0	50	100	0	0	0	100	100	0	75	100	0	50	25	0	0	75	0	25	50	75

Percent of Students hitting the ISTE NETS Indicator

1a	1b	1c	1d	2a	2b	2c	2d	3a	3b	3c	3d	4a	4b	4c	4d	5a	5b	5c	5d	6a	6b	6c	6d
3	3	0	0	1	3	0	0	0	3	3	0	2	3	0	1	1	0	0	2	0	1	1	2

Download CSV

Student Progress

Teachers	Students	Projects Started	Projects Approved	TechYES Certified	% Certified
1	150	166	4	0	0.0%

Download CSV

STL Report

Teachers	# STLs	# STL Assessed	# STL Assessed & Approved	# Approved	% STL Assessed
1	19	22	2	4	50.0%

Download CSV

What is Generation YES?

Generation YES is a nonprofit organization that believes K-12 education reform must meaningfully involve students in authentic educational activities based on constructivist learning theory.

Generation YES has developed, implemented and evaluated numerous major initiatives aimed at conclusively showing that student leaders and project-based learning improve academic achievement. Using a variety of educational technology, students and educators in thousands of schools have collaborated to produce over 100,000 projects. The **YES** in our name shows our commitment to **Youth** and **Educators Succeeding.**

Fifteen years of Generation YES program evaluations have led to the present TechYES project-based learning management environment described in this document. TechYES is a flexible tool for use in any school or grant implementation with the goal of capturing true learning.

TechYES Is...

- A full scale project-based learning solution for all subjects and grade levels
- A tool to align student projects to Common Core and academic standards
- A tool to assess technology integration & proficiency through student projects
- Addressing Common Core standards requiring project-based assessment and technology
- A strategic focus on key content areas and 21st century skills
- A tool to conduct research
- A valuable supplement to existing Learning Management Systems (LMS)
- A Student Technology Leadership program
- Powerful real time reports on key learning metrics
- Scaffolding for teachers and students to understand project-based learning