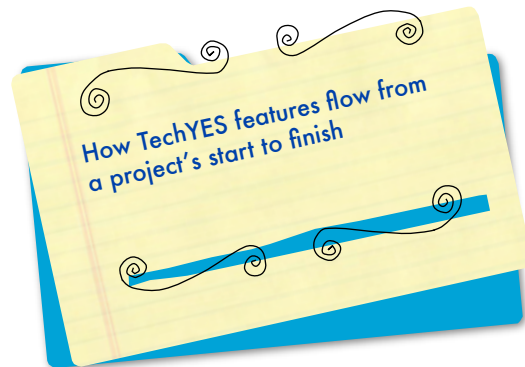
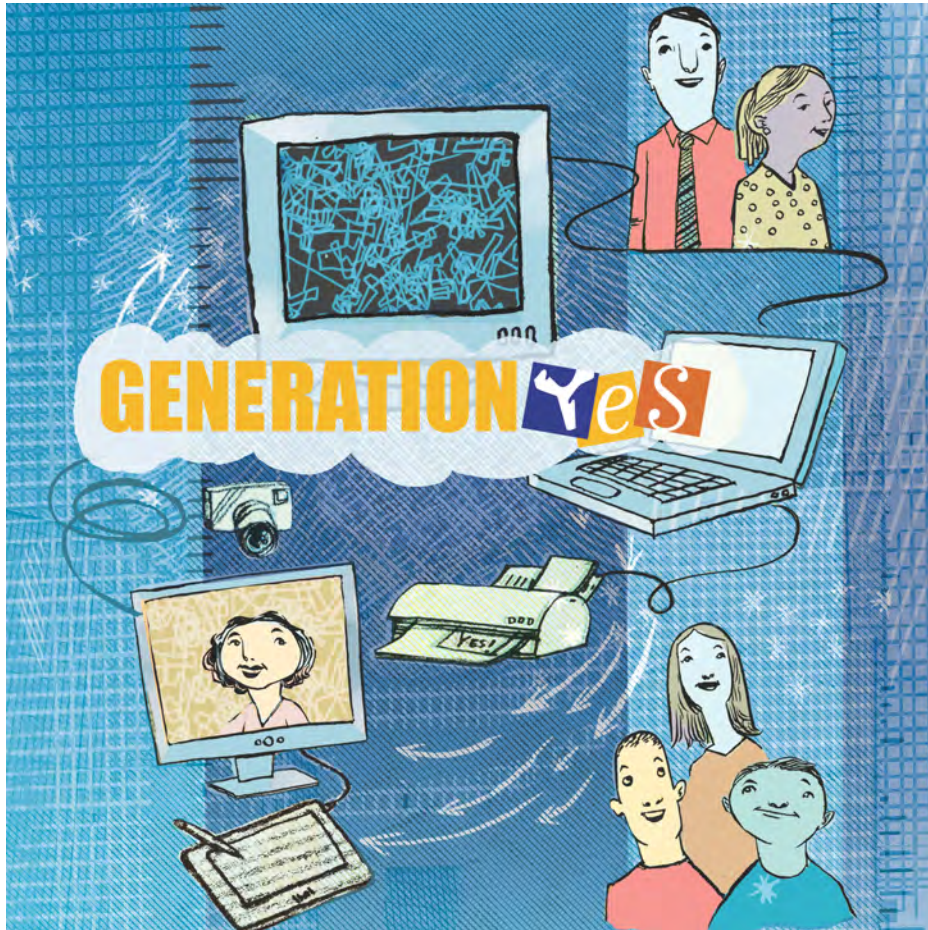


# TechYES



## 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.

Page	The TechYES Project Process
3	1. Teacher Creates Lesson Plan
4	2. Teacher Creates Assessment Rubric
5	3. Students Plan and Create Projects
6	4. Align Projects to Standards
7	5. Store Project in Student Portfolio
8	6. Assess Academic Achievement (Common Core)
9	7. Assess ISTE NETS • S Proficiency
10	8. Showcase Exemplary Projects
11	9. Support for Teachers and Students
12	10. TechYES Reports



# 1. Create a Lesson Plan



# 2. Create an Assessment Rubric

## 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

**New Lesson Plan**

**Additional Information** See Additional Information  
Teacher considerations, preparation information, and other valuable information

**Assignment**

\* Title: Encourage students to create their own titles to their individual projects.

Subject Areas (can check more than one):

- Art & Music
- Foreign Language
- Language Arts
- Math
- Physical Education
- Science
- Social Studies
- Technology
- Other

Purpose of Project: Enter goals, what students will learn, how project relates to what students are studying.

Student Instructions: Give instructions to the students such as: individual or group tasks, project plan completion date, presentation dates, associated homework, or other project requirements.

## 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?

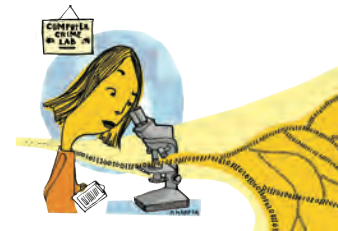
Once the lesson has been created and an assignment generated, students can automatically create a new project that carries the instructions and assessment rubrics. Project planning is critical because:

- 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



## 6. Assess Academic Achievement

### 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

File Name	File Size	Download
Water.wmv	260.12 MB	

### 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

Assessment Criteria	Points	Minimum	Maximum
Academic Content	16	20	Demonstrates a concept that has nothing to do with the assignment.
Plan Project	5	5	Does not understand task and did not create plan.
Gather, Organize, Construct, Share	5	5	No evidence that GOCS were used.
Organization of Final Project	3	5	Project is unorganized and difficult to follow.
Accuracy of Project Content	8	10	Project content is completely incorrect.
Technology Integration	5	5	Technology not used effectively to achieve.

**Total Score : 42 / 50 Points**



## 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.

Your Cumulative ISTE NETS Score 10/24



Summary

Project Information

Project Plan

Project Links & Files

Academic Standards

Student Assessment

STL Assessment

Teacher Assessment

Comments

### Technology Assessment

Skills and Examples - Ages 11-14

Skills and Examples - Ages 14-18

**1. Creativity and Innovation**  
Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students:

- a. apply existing knowledge to generate new ideas, products, or processes. ● ●
- b. create original works as a means of personal or group expression. ● ●
- c. use models and simulations to explore complex systems and issues. ● ●
- d. identify trends and forecast possibilities. ● ●

**2. Communication and Collaboration**  
Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others. Students:

- a. interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media. ● ●
- b. communicate information and ideas effectively to multiple audiences using a variety of media and formats. ● ●
- c. develop cultural understanding and global awareness by engaging with learners of other cultures. ● ●
- d. contribute to project teams to produce original works or solve problems. ● ●

**3. Research and Information Fluency**  
Students apply digital tools to gather, evaluate, and use information. Students:



## 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

### Showcase Projects

Grade level

Subject area

Technology used

Search by...

**Search by Academic Standards**

- Common Core
  - English
  - Math
  - None

**Search by ISTE NETS Indicators**





# Support for Teachers & Students



# TechYES Reports

## 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

## Learn

Everything you'll need to have an incredible TechYES program.

### TechYES Basics

#### Unit 1 Preparing Student Technology Leaders (STLs)

The activities in this unit help Student Technology Leaders (STLs) get ready to be tutors, project evaluators, and leaders for students in TechYES.

#### Unit 2 Introduction to TechYES and Internet Safety and Ethics

This unit ensures that TechYES students are able to complete their TechYES projects safely and responsibly by learning to protect themselves and their computers. In addition, students will learn how to legally and ethically incorporate outside material into their TechYES project by correctly gathering, organizing and citing sources. A brief overview of the TechYES concepts and procedures is also provided to acquaint students to the program.

#### Unit 3 Becoming a Web Critic

This unit will give TechYES students the knowledge and skills to locate, authenticate, evaluate, and use web-based information and resources effectively and efficiently. These information literacy skills will play a crucial role in helping students complete their TechYES projects while meeting important ISTE NETS standards.

#### Unit 4 TechYES Projects

This unit provides a road map for leading a TechYES class from start (introducing the concept and resources) to finish (evaluating projects and presenting certificates). Its use depends on the TechYES model you are using.

#### TOOLKIT

- TechYES Student Guide
- STL Handbook
- Project Planning and Assessment Resources
- Website Guides
- Facilitator Resources
- Teacher Implementation Guides
- Help

## 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.

### Common Core Reports View Only Approved Projects

1. School  
Demonstration School

2. Teacher  
Gomez, Consuelita

3. Class  
Algebra 1

Show projects created after:  
November 1, 2012

Show projects created before:  
November 20, 2012

Show archived projects?

4 1 Common Core

2 1 English

2 1 Math

0 0 Grade K

0 0 Grade 1

0 0 Grade 2

0 0 Grade 3

0 0 Grade 4

0 0 Grade 5

0 0 Grade 6

2 1 Grade 7

1 1 Ratios And Proportional Relationships

1 1 Analyze Proportional Relationships And Use Them To Solve Real-World And Mathematical Problems.

- 0 1 RP.1 "Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or unlike units."
- 0 1 RP.2 "Recognize and represent proportional relationships between quantities."
- 0 1 RP.2.a "Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane."
- 1 1 RP.2.b "Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships."
- 0 1 RP.2.c "Represent proportional relationships by equations. For example, if total cost  $t$  is proportional to the number  $n$  of items purchased at a constant price  $p$ , the relationship is represented by  $t = pn$ ."
- 0 1 RP.2.d "Explain what a point  $(x, y)$  on the graph of a proportional relationship means in terms of the situation, with special attention to the point  $(1, r)$  representing the unit rate  $r$ ."
- 0 1 RP.3 "Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, scale factors, enlargement and reduction."
- 0 0 Multiply



# TechYES Reports

(continued)

# What is Generation YES?

## 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.

### Your Cumulative ISTE NETS Score 10/24



## 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](#)

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