

K-12 Technology Literacy Curriculum and Assessment



“TechSteps inspires collaboration, creativity, and hands-on learning with real-world technology integration projects that you won’t find anywhere else. Our district is seeing 21st Century teaching and learning in a whole new way.”

– Richard L. Barnard
Technology Director

Ensuring effective 21st Century integrated instruction in every classroom

TechSteps is a district-wide technology literacy curriculum that easily and effectively infuses technology skills into core instruction, promoting core subject area outcomes while also teaching skills for 21st Century success. This proven approach allows educators to teach and assess technology literacy in an integrated and systematic manner, while generating data for authentic performance-based assessment and reporting purposes.

TECHNOLOGY INTEGRATION PROJECTS IN CORE ACADEMIC AREAS

Challenge
Design a survey to determine how a certain group of people feels about a particular issue. Use your findings to support statements in a written report.

Get Started
▶ To start the **Opinion Survey**, click this button:

Opinion Survey

- CLASSROOM-READY PROJECT BOOKS
- Project-based technology instruction
 - Systematic, integrated curriculum
 - Enrich core standards-based curriculum
 - Engaging, rigorous, and relevant content

Prepare Your Survey
▶ In cell **B1**, enter the title of your survey

	A	E
1		V
2		Na
3	Statement 1 ...	C

- SCAFFOLDS & TEMPLATES
- Students use real-world applications to build original information products
 - Save preparation time
 - Support differentiated instruction

Survey Statements
▶ Enter a statement in each cell. Write each statement so that it is true or false.

- There is too much violence on television.
- Children copy what they see on television.
- Children learn positive things from television.
- Sometimes I am frightened by violence on television.

Violence on Television

There is a lot of discussion today about violence on television and in the movies. Do people put violence in television shows because they think children like watching it? Do they really know that this is true?

My survey shows that 75% of the students at Highfield School think there is too much violence on television.

11 & 12-Year Old Students at Highfield

Also, even though most of the students don't think kids copy television violence, they think there should be less violence shown. This is because they think television is sometimes scary, and even if only one kid copies violence from television, that's still a bad thing.

Page: 1 of 1 Words: 400

EVIDENCE-BASED ASSESSMENTS AND REPORTING

INFORM INSTRUCTION

- Real-world projects enable performance-based assessment
- Formative assessments generate and share meaningful feedback
- Performance data is aggregated into summative reports

TECH-LITERACY PROFILES

- An attainment profile is generated for each student over multiple projects and subject areas

TechSteps: Opinion Survey - Assessment Rubric

http://www.techsteps.com

Grade 5 Activity 3: Opinion Survey - Assessment Rubric

Student: Samuel Blanchart

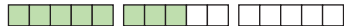
Criteria	Performance			Weight	Comments
Choose a significant survey topic - one about which people hold strong opinions.	The topic is significant and suitable for a survey. ✓	The topic is suitable for a survey.	The topic is not suitable for a survey.	1	The significance of your topic is well explained.
Make sure that the data from your survey is accurately recorded in your spreadsheet. Include all titles, labels, and survey statements.	The spreadsheet is well organized and accurate. It includes a survey title, survey statements, and all responses.	The spreadsheet is organized however one or two pieces of required information are incorrect or missing. ✓	The layout of the spreadsheet is poor and / or survey data is not accurate or complete.	4	
Use the SUM function to tally the results of your survey.	The formula correctly tallies the results of the survey.	There is a minor error in the formula. ✓	The formula is missing or is substantially incorrect.	1	
Make sure that your graph is complete and useful. Label the x and y axes and include a title. Use appropriate scales and labels for each statement.	The data is well represented in an accurate graph. ✓	The data is represented in a graph. One or two survey statement results are not correctly represented.	The graph is incomplete and / or is a poor representation of the survey results.	3	Well done. The graph is detailed and accurate. Good color choices make it clear and readable.
Use the graphed data to draw reasonable conclusions.	The results of the survey are clearly articulated. A conclusion is drawn. ✓	The results of the survey are explained. The conclusion drawn is a little too general.	The survey results are poorly explained and / or the conclusion drawn is not consistent with the data.	4	
	The concluding statement briefly addresses the validity of the data. ✓	The concluding statement does not address the validity of the data.		1	

21st Century Skills Profile

Student: Samuel Blanchart Profile Date: 3 Feb 2011
 Grade: 5 Attainment: 158

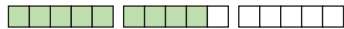
Creativity and Innovation

- Generate new ideas, products, and processes
- Create expressive works



Communication and Collaboration

- Interact and collaborate with others
- Design for, and convey information to multiple audiences



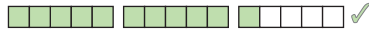
Research and Information Fluency

- Select relevant information from valid and reliable sources
- Organize, analyze, evaluate, synthesize, and report information



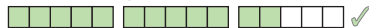
Critical Thinking, Problem Solving, and Decision Making

- Model and interpret data to inform thinking and decision making
- Define problems and develop/implement solutions



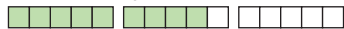
Digital Citizenship

- Exercise responsible use of information
- Seize and amplify opportunities to learn, contribute, and lead



Technology Operations and Concepts

- Understand and use technology systems and applications
- Transfer knowledge to troubleshoot and learn new technologies



REPORTING

- Ensure district-wide accountability with multiple reporting options
- Manage district-wide goals and expectations
- Implement, measure, and assess technology literacy development

Increase rigor. Improve instruction. Inspire success.



TechSteps K-8

TechSteps K-8 is a rigorous and relevant elementary and middle school technology education curriculum that assists in the development and assessment of student technology literacy and 21st Century skills.



TechSteps 9-12

TechSteps 9-12 engages high school students with carefully planned, taught, and assessed experiences designed to increase understanding of core academic content while also developing 21st Century skills.

Project-based Technology Literacy Curriculum

TechSteps provides engaging classroom-ready integration activities that guide students in using open-ended, real-world applications to solve meaningful challenges. Designed to be fully integrated into core standards-based instruction, each rigorous and relevant project systematically develops technology literacy and 21st Century skills while also improving learning outcomes.

Authentic Assessment and Reporting Tools

TechSteps evaluates performance-based evidence to assess and report on 21st Century technology and information skills development. Student-centered formative tools provide meaningful feedback to inform learning of both core subject and technology skills. Summative reports provide administrators with all the information needed to make reliable, data-driven decisions and meet reporting requirements.

Advances 21st Century Teaching and Learning

TechSteps easily and effectively infuses 21st Century skills into every classroom to ensure that each child is career- and college-ready. Simultaneously addressing core curriculum, technology literacy, and 21st Century learning standards, TechSteps assists teachers in designing lesson plans that promote the development and demonstration of active learning, innovation, and higher-order thinking.

- Aligned with ISTE NETS*S, Common Core and state standards
- Seamless Web-delivery
- Single grade-level based student sign-on
- Scoped and developmentally sequenced curriculum
- 6 open-ended classroom-ready integration projects per grade level
- Online safety lessons including cyber-bullying prevention
- Activity library of 150+ additional integration projects available

To learn more about TechSteps -

Call: 1 800 979 0373

Email: sales@edvation.com

Visit: www.techsteps.com

Edvation

Advancing education for
21st century success.