

Grade 6: Spreadsheets and Graphs

ESTABLISHED GOALS: <u>Competencies:</u> - Students will demonstrate the ability to create spreadsheets and graphs in order to analyze data. - Students will demonstrate the ability to analyze and summarize text and integrate knowledge to make meaning of discipline-specific materials. - Students will demonstrate the ability to produce coherent and supported writing in order to communicate effectively for a range of discipline-specific tasks, purposes, and audiences. - Students will demonstrate the ability to speak purposefully and effectively by strategically making decisions about content, language use, and discourse style. <u>Content Standards:</u> - ISTE.4.CT: Use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.	Transfer	
	Students will be able to independently use their learning to use data analysis to develop a solution or complete a task.	
	Meaning	
	ENDURING UNDERSTANDINGS Students will understand that... digital tools make it easier to organize, collect and analyze data.	ESSENTIAL QUESTIONS How critical is the use of digital tools in data collection?
	Acquisition	
	Students will know... - that spreadsheets and graphs help make predictions and or decisions. - the purpose of using a spreadsheet for real world applications. - that formulas are available to assist with mathematical operations on your data. - that different cursors are available to assist with inputting data, using formulas, and formatting. - that not all data is appropriate to include in a graph. - that a graph is a visual representation of data. <u>vocabulary:</u> ribbon, sheet, fill handle, fill, formulas, axis, data, chart, data labels, merge, and center	Students will be skilled at... - entering basic formulas. mathematical symbols (a1+b1). - using the autofill/cursors feature on spreadsheets. - creating a graph with the correct data. - formatting a graph to be more visually appealing and accessible. - organizing and formatting data. - collect and analyzing data to identify solutions and/or make informed decision.

Content Area Literacy Standards	21st Century Skills
- CCSS.ELA-LITERACY.RST.6-8.3 Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks. - CCSS.ELA-LITERACY.RST.6-8.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 6-8 texts and topics</i>.	- Reason effectively - Make judgments and decision

• CCSS.ELA-LITERACY.RST.6-8.7 Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table). • CCSS.ELA-LITERACY.RST.6-8.8 Distinguish among facts, reasoned judgment based on research findings, and speculation in a text. • WHST.6-8.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	• Make judgments and decisions • Solve problems • Think creatively • Apply technology effectively • Be self-directed learners
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<i>Evaluative Criteria</i>	<i>Assessment Evidence</i>
	PERFORMANCE TASK(S):
	OTHER EVIDENCE:

Summary of Key Learning Events and Instruction		
<i>Science Integration</i>	<i>College, Career, and Civic Life Integration</i>	<i>Technology Integration</i>
<i>District Materials</i>	<i>Distance Learning/Field Trips</i>	<i>Technology Resources</i>