

Grade 8: Spreadsheets and Graphs

ESTABLISHED GOALS:		
<u>Competencies:</u> - Students will demonstrate the ability to solve problems by managing projects, analyzing data, manipulating workbooks, and creating graphs. - 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 plan and manage activities to develop a solution or complete a task using appropriate tools.	
	Meaning	
	ENDURING UNDERSTANDINGS Students will understand that... digital tools make it easier to collect, and organize data to make decisions in a real world situation.	ESSENTIAL QUESTIONS How critical is the use of technology to help solve real world problems?
	Acquisition	
	Students will know... - that there can be multiple sheets to a workbook. - that in order to analyze information, the data needs to be entered into a spreadsheet a specific way. - that complex formulas may include simple formulas and functions. - that data can be organized, sorted and edited. - that spreadsheets are helpful in the planning and management of activities, development of a solution, or completion of a project. <u>vocabulary:</u> Cell reference, Absolute reference, Function Formula, Cell Range, Workbook	Students will be skilled at... - using multiple sheets within a workbook. - organizing data on a spreadsheet (including sorting). - using and modifying spreadsheets to analyze data and propose solutions. - using simple and complex formulas including absolute reference cells. - creating and formatting a graph correctly to display their results. - importing and exporting data between spreadsheets and other applications. - identifying and defining authentic problems and significant questions for investigation. - planning and managing activities to develop a solution or complete a project. - collecting and analyzing data to identify solutions and/or make informed decisions.

Content Area Literacy Standards	21st Century Skills
• RST.6-8.3. Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks. • 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>. • 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). • WHST.6-8.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	• Reason effectively • Make judgments and decision • Solve problems • Think creatively • Apply technology effectively • Be self-directed learners

Evaluative Criteria	Assessment Evidence
	PERFORMANCE TASK(S): Research career and create an estimated budget based on salary.
	OTHER EVIDENCE: Quiz practice sheets

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

