

Classroom Applications Approach for 8.1 Technology Grades 5-8

Standard: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively to create and communicate knowledge.		
Strand: Research and Information Literacy		
Essential Question(s)		Enduring Understanding(s)
How do I choose which technological tools to use and when is it appropriate to use them?		Technology is constantly changing and requires continuous learning of new skills
Content Statement(s)	CP	Cumulative Progress Indicator(s)
Effective use of digital tools assists in gathering and managing information.	8.1.8.E.1	Gather and analyze findings to produce a possible solution for a content-related or real world problem using data collection technology.
<p>Instructional Focus</p> <p>Accessing and analyzing real world data Selecting and using appropriate tools and digital resources to accomplish a variety of tasks and to solve problems</p> <ul style="list-style-type: none"> • Drawing inferences and conclusions from research • Realizing relationships between cause and effect • Using evidence to construct explanations • Writing reports and presenting visual representations of evidence to support conclusions • Communicating effectively 		
<p>Sample Assessment</p> <p style="margin-left: 20px;">Performance Assessment Task</p> <p style="margin-left: 20px;">Hurricane Katrina was a terrible disaster for the people of New Orleans as witnessed by viewers across the country. We can not control the path of hurricanes, but knowing how to respond effectively to a natural disaster is critical. Develop a multi-media presentation for a school assembly explaining how hurricanes are formed, how they are classified, and what the classifications mean. Include information about preparing for a hurricane.</p>		
<p>Instructional Strategies</p> <ul style="list-style-type: none"> ▪ Interdisciplinary Connections <ul style="list-style-type: none"> ○ Research the effect of hurricanes on hurricane victims' health due to factors such as, lack of clean water, housing, food .and include in your presentation. ▪ Technology Integration <ul style="list-style-type: none"> ○ Identify the two most powerful hurricanes that struck the US according to their characteristics and specific paths using an online database, such as http://weather.unisys.com/hurricane/index.html. ▪ Global Perspective <ul style="list-style-type: none"> ○ Research powerful storms (hurricanes/typhoon/cyclones) that struck other countries in recent years and include this information in your presentation as a basis for comparison with Katrina ▪ Extended Resources: <ul style="list-style-type: none"> ○ Tutorial on how hurricanes are formed http://magma.nationalgeographic.com/ngexplorer/0409/quickflicks/ ○ Hurricane resources http://www.sun-sentinel.com/news/local/southflorida/sfl-hc-aboutcanes_0.4266077.htmlstory ○ Fema for kids http://www.fema.gov/kids/hurr.htm ○ Hurricanes as forces of nature http://www.nationalgeographic.com/forcesofnature/interactive/index.html?section=h 		