

Project Worksheet

Integrating Technology Into A Curriculum Unit

Generative Topic Title	Watersheds – How are People Connected to Water Systems?	
Overarching Goals For Use of Computers and Other Technologies <small>(Standard numbers from NETS Grades 3-5 performance indicators, http://cnets.iste.org/currstands/cstands-netss.html)</small>	Goal 1 Students will be able to evaluate an electronic information source and use it as a reference alongside electronic and non-electronic information sources. (10)	
	Goal 2 Students will be able to create a Powerpoint presentation, using materials from other productivity applications. (4)	
	Goal 3 Students will be able to use a digital camera, transfer photos to a computer, and insert the images into a productivity application. (5)	
Overarching Goals For Academic Areas to Be Addressed By The Unit.	Academic Area 1	Science
	Curriculum Goal	Students will understand how to plan and carry out a scientific investigation.
	Academic Area 2	Social Studies
	Curriculum Goal	Students will understand how the geography of an area relates to social and political structures and issues in that area.
	Academic Area 3	Literature
	Curriculum Goal	Students will understand how to relate a fictional piece to a historical event or contemporary issue.
Unit Understanding Goal 1	Science Unit Understandings	
Associated Curriculum Standard (Reference)	<ul style="list-style-type: none"> • Students will understand the definition of a watershed. • Students will understand how the water cycle functions. • Students will understand how water circulates within a watershed and how pollutants are carried by water. • Students will understand how to record and interpret observations of an ecosystem. • Students will understand how they are affected by pollutants within our watershed. 	
Unit Understanding Goal 2	Social Studies Unit Understandings	
Associated Curriculum Standard (Reference)	<ul style="list-style-type: none"> • Students will understand how the geographical boundary of a watershed is determined. • Students will understand how our geographic area is affected by an environmental issue currently in the news • Students will understand how to read a topographical map 	
Unit Understanding Goal 3	Literature Unit Understandings	
Associated Curriculum Standard (Reference)	<ul style="list-style-type: none"> • Students will relate the themes in several pieces of literature (The Lorax, Seuss; How the Forest Grew, William Jaspersohn; A River Ran Wild, Lynn Cherry) to their observations about our own watershed. • Students will understand how to create an argument for or against one of the issues encountered in The Lorax using non-fiction resources. 	

Performances Of Understanding

Types of Performances	Activities Required	Nature of Technology Use	Assessment Strategies
Introductory Performances	<i>Definitions</i> – We will create a physical model of a watershed, and use it to develop and test our definition.	None.	Student Observation
	<i>Mapping</i> – Students will use information from a topo map to create their own watershed map.	Web search, to compare answers.	Group oral presentations
	<i>Literature</i> – Several books will be read as a class and students will individual collect ideas that relate to the watershed concept.	Inspirations	Inspiration map will be assessed after a student/teacher conference.
Guided Inquiry Performances	<i>Site Visits</i> – We will visit two sites within our watershed and collect photographic evidence of pollution.	Digital cameras	Reflection writing
	<i>Mapping (2)</i> – We will create a digital map of our watershed and investigate pollution sources using GIS data.	Grass GIS, web data	Map will be assessed according to rubric
	<i>Social Concerns</i> – Students will choose a local environmental issue and research it.	Internet searching	Persuasive essay
Culminating Performances or Final Projects	<i>Portfolio</i> – Students will create a PowerPoint presentation that acts as a portfolio of the work they have done in this unit.	PowerPoint	Presentation will be assessed according to rubric.