



Gold Seal Lesson

Author(s): Elizabeth Pierce			Lesson Title: Mark Twain-The Adventures of Tom Sawyer- Tom and the Turtle Eggs			
Grade Span			ICLE Application Model			
K-4	5-8 X	9-12	A	B	C	D X

Instructional Focus:

Reading

Students read a variety of grade level materials, applying strategies appropriate to various situations

Writing

Students write for a variety of purposes and audiences with sophistication and complexity appropriate to the grade level

Listening

Students listen for a variety of purposes appropriate to the grade level

Speaking

Students speak for a variety of purposes and audiences with sophistication and complexity appropriate to the grade level

Performance Task

The student reads *The Adventures of Tom Sawyer* by Mark Twain. Tom, Huck and Joe glide a raft to Jackson's Island. While everyone in town presumes that the three boys have drowned and plan for their funeral, the boys swim, nap and hunt for turtle eggs.

The student researches the career of a herpetologist (a zoologist who specializes in the study of reptiles and amphibians). The student researches the life of the visionary herpetologist, Archie Carr and his work with turtle populations. The student researches turtles (Green, Black, Leatherback, Olive Ridley, Kemp's Ridley, Hawksbill, Australian Flatback, and Loggerhead). The student interviews the science teacher and asks what is involved in the herpetologist's job description. The student also talks with the science teacher about turtles.

After synthesizing this information, the student computer generates a report about the process to becoming a herpetologist and the skills required. In addition, the student writes about the turtles, their behaviors, their distinct characteristics, how they lay their eggs, how the eggs hatch, what is happening to the eggs and the hatchlings, and why all of these eight species of turtles are nearing the extinction level. The student also includes in the report what is being done by herpetologists, conservationists, industry and private citizens to save the turtles.

Next, the student creates a PowerPoint presentation with pictures of turtle eggs, hatchlings and adult turtles the student scans into PowerPoint. Also included in the presentation are pictures of measures herpetologists, conservationists, industry and private citizens are taking to save the turtles. The last picture in the Power Point presentation must contain a name and address the audience can write to, email or call to help the turtles. Captions the student writes in the PowerPoint presentation should succinctly explain the context of the picture. The presentation must be professional in appearance. The student presents the PowerPoint presentation to the class and describes each picture.

The student writes on a computer an opinion essay on what he or she thinks should be done to save the turtles from becoming extinct. The student substantiates his or her opinion based on the facts he or she has gathered from the research. There is no right or wrong answer.

ICLE Essential Skills

Apply in writing the rules and conventions of grammar, usage, punctuation, paragraphing and spelling. (ela 1)

Present information in well-organized fashion that will be clear to the target audience. (ela 11)

Use a variety of media to gather information and to transmit information to specific audiences. (ela 43)

Gather information such as data, facts, ideas, concepts, and generalizations from oral sources. (ela 51)

Organize supporting detail in logical and convincing patterns. (ela 54)

Understand how humans, through technology, cause environmental change by disrupting the equilibrium or balance of nature by introducing pollutants into the environment. (s 6)

Identify and comprehend the concepts involving the earth's water, i.e., ground water (infiltration, permeability, porosity, and capillarity), surface water (runoff), and pollution (sources, types, concentration, and long range effects). (s 17)

Understand ecology as the study of the interactions and relationships of organisms with their living and nonliving environments (i.e., the ecosystem, communities, and populations). (s 13)

Know the survival requirements of animals and plants and the history and implications of population growth. (s 40)

Understand the human impact on the environment through pollution (air, water, and soil), and ways to improve it through education, research, laws, and conservation. (s 10)

Scoring Guide:

Score each of the following characteristics on a scale of 4 to 0, where 4 = surpasses expectations; 3 = high quality performance; 2 = satisfactory quality performance; 1 = minimum quality performance; 0 = does not meet expectations.

CHARACTERISTICS CRITERIA SCORE

- **Researches Becoming a Herpetologist, Archie Carr and Turtles**

- Makes proper use of technology using at least two internet sites
 - Uses other various sources for research
- _____

- **Interviews Science Teacher**

- Conversation is productive
 - Discusses herpetology and turtles
- _____

- **Writes About the Process of Becoming a Herpetologist and About Turtles**

- Identifies process to becoming a herpetologist
 - Identifies skills required
 - Explains the turtles':
 - Behaviors
 - Distinct characteristics
 - Egg laying process
 - Hatching process
 - Identifies what is happening to the eggs and the hatchlings
 - Identifies why these eight species are nearing extinction
 - Explains what is being done to save the turtle population
 - Applies the rules and conventions of grammar, usage, punctuation, paragraphing, spelling
 - Presents information in well-organized fashion that will be clear to the target audience
 - Uses editing and revising skills to improve effectiveness and accuracy
- _____

Scoring Guide continued...

- **Creates and Presents PowerPoint Presentation**

- Makes proper use of technology
 - Captions explain pictures succinctly
 - Presentation has professional appearance
 - Student explains presentation
 - Gives oral presentation that is clear and is understood by the audience
 - Makes eye contact, speaks loudly enough, delivers information in a well-organized fashion, and appeals to the target audience's need to know
 - Last picture of presentation has contact information
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- **Writes Essay**

- Expresses opinion clearly
 - Substantiates opinion with facts
 - Opinion is logical
 - Applies the rules and conventions of grammar, usage, punctuation, paragraphing, spelling
 - Presents information in well-organized fashion that will be clear to the target audience
 - Uses editing and revising skills to improve effectiveness and accuracy
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- **Task Management**

- Manages time wisely
 - Cooperates with others as needed
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Keywords

English Language Arts	Mathematics	Science
Reading Comprehension Independent Reading Research Integration	Algebra	Earth Science Community Environment Erosion Nature Oceans Pollution Scientific Inquiry Tides Water
Writing Careers Composition Persuasion Integration Word Processing	Geometry	Life Science Amphibians Behavior Cause and Effect Ecology Ecosystem Endangered Species Environment Extinction Life Cycles Oceanography Population Reproduction Scientific Inquiry Scientists Zoology

Keywords continued...

Communications Interviewing Listening Multimedia Oral Presentation Technology Integration Visuals	Statistics	Chemistry
Literature American Literature Fiction Non-Fiction Integration	Calculus	Physics
Other PowerPoint Herpetologist Turtles Sea Turtles	Trigonometry	Other <i>National Geographic</i> – February 1994 Vol. 185, No. 2 “Sea Turtles: In a Race for Survival” (pp 94-121, 143-144)
	Other	