



Gold Seal Lesson

Author(s): <i>Marsha Kucker</i>			Lesson Title: <i>Technology and the Changing World</i>			
Grade Span			ICLE Application Model			
<i>K-4</i>	<i>5-8</i> <i>XX</i>	<i>9-12</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i> <i>XX</i>

Instructional Focus:

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

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

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

Science and Technology - Students develop skills in using technology and recognize the relationship between technology and science, including its potential and limits.

Science in Personal and Social Perspectives - Students apply scientific principles to personal and social issues.

Performance Task

1. Ask students for their definitions of a career and also of technology.

Technology – Scientific method of achieving a useful design.

Career – An occupation for which people prepare themselves, both mentally and physically and through which one derives a livelihood.

2. Write on the chalkboard the following career clusters:

Health Occupations

Transportation

Communication

Construction

Business

Consumer and Family Sciences

3. Have students list the technologies that are used in each of these career cluster areas: For example:

a. Health Occupations – nuclear medicine, radiation, laser, CT Scan, computers

b. Transportation – space shuttle, supersonic aircraft, bullet trains, computers, auto design

c. Communication – satellites, fiber optics, superconductors, cable television, computers

d. Construction – laser, solar heat, computers

e. Business – computers, word processing

f. Consumer and Family Sciences – computer, cell phones, microwave

Performance Task continued:

4. Lead a class discussion on how computers have a profound effect on every career cluster/occupation.
5. Ask students “How has technology affected your life? Do you use computers in school or at home? What other types of technology do you use?”
6. Divide students into groups of two to prepare and present a multimedia presentation on “Technology and the Changing World”.

ICLE Essential Skills

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

Follow oral or written directions. (ela 4)

Identify, collect, and/or select pertinent information while reading. (ela 5)

Prepare and deliver individual speeches by gathering information, rehearsing, making eye contact, speaking loudly enough, delivering information in a well-organized fashion, and appealing to the needs of the target audience. (ela 10)

Draft a report that engages an audience and is concise, clear, well-organized, accurate, and informative. (ela 12)

Summarize, synthesize and organize information while reading. (ela 24)

Know how to find and read information from a variety of electronic sources. (ela 28)

Understand and use graphs, charts, and visuals to enhance information writing and oral presentations. (ela 29)

Use writing as a way of expressing personal creativity. (ela 31)

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

Apply, extend, and expand on information while reading. (ela 46)

Understand the impact upon society and the environment of scientific and technological discoveries and the contribution of scientists. Understand how society may accept or reject scientific discoveries based upon need or refusal to change. (Science 116)

Scoring Guide:

See attachment Scoring Rubric in : Technology and the Changing World Chart

Keywords

English Language Arts	Mathematics	Science
Reading Research Technology	Algebra	Earth Science
Writing Composition Viewing Technology	Geometry	Life Science Adaptation Cause and Effect Technology Integration
Communications Discussion Listening Illustration Multimedia Oral Presentation Technology	Statistics	Chemistry
Literature	Calculus	Physics
Other	Trigonometry	Other
	Other	

Chart

**TECHNOLOGY AND THE CHANGING WORLD
SCORING RUBRIC**

- 5 Engaging, very creative, strong command of topic and intelligence, high quality presentation, strength very clearly demonstrated.
- 4 Enjoyable, creative, good command of topic and intelligence, quality presentation, strength demonstrated.
- 3 Average presentation, some creativity, average command of topic and intelligence, strength not clearly demonstrated.
- 2 Below average, little creativity, shows little command of topic, strength poorly demonstrated.
- 1 Poor quality, little or no creativity, shows no command of topic, no strength demonstrated.
- 0 Presentation not given.