Gold Seal Lesson:

Copernicus Education Gateway

Author(s): *Michael Lucky Voiselle*			*Lesson Title:* *GIVE ME SOME SKIN*			
Grade Span			*ICLE Application Model*			
K-4	*5-8*	*9-12* *XX*	*A*	*B*	*C*	*D* *XX*

Instructional Focus:

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

Science as Inquiry
Students demonstrate knowledge and skills necessary to perform scientific inquiry.

Communication
Students communicate and apply scientific concepts.

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

Performance Task

Your task is to determine how important is skin to your health and well-being. Use any resources available to research all you can about the largest organ of the body and answer the following questions. Be sure to draw diagrams, make reference to chemical formulas, and chemical reactions. You are to include these and the question responses in a well prepared, well written, neatly organized paper that is free from spelling and grammatical errors.

1. What is the main function of your skin? Be sure to talk about the non-living protein Keratin.
2. How does your skin expand and contract? Your skin has to undergo swelling, shrinking and sliding.
3. How can you help your skin stay moist? Be sure to include products you can buy in a drug store.
4. How does your skin stay clean and free of dirt, oil, and bacteria? Be sure to include how you can help this process.
5. What causes acne and how can you help cut down or prevent it? Be sure to mention the sebaceous glands here.
6. Chemically, how does benzyl peroxide aid in the reduction of acne? Be sure to include a discussion of free radicals with this question.
7. Chemically, how does soap clean your skin? Be sure to include how soap is made.
8. Chemically, how does cold cream aid in removing make-up? Include what ingredients are in cold cream and their function.

ICLE Essential Skills

Apply in writing the rules and conventions of grammar, usage, punctuation, paragraphing and spelling. ELA1
Gather information from a variety of sources, including electronic sources, and summarize, analyze, and evaluate its use for a report. ELA3
Present information in well-organized fashion that will be clear to the target audience. ELA11
Identify and understand the structure and parts that comprise the systems (i.e., cardiovascular, nervous, lymphatic, muscular, etc.) and regions (i.e., head and neck, upper limb, thorax, abdominopelvic, back, and lower limb) of the human body. S2
Identify and describe the levels of organization in living systems (i.e., tissues, organs, organ systems, and organisms). S15

Scoring Guide:

4. Student researches carefully and answers all questions in a well-written manner free from spelling and grammatical errors. Student demonstrates an understanding for the function of the skin. Diagrams, chemical formulas, and chemical reactions are included to aid the reader in comprehending what is being conveyed. Diagrams are colorful and neatly done.

3. Student researches carefully and answers all questions in a well-written manner free from spelling and grammatical errors. Student demonstrates an understanding for the function of the skin. Colorful diagrams and chemical reactions are included however, lacks clarity and a bit confusing.

2. Student researches carefully and answers all questions in a well-written manner. There are some misspelled words and some grammatical errors. Diagrams are included but not neatly done. Chemical formulas and chemical reactions are included however, lacks clarity and does not contribute to the readers comprehension. The student has some understanding of the function of the skin.

1. Student research is haphazardly done with some questions not addressed. Writing contains many spelling and grammatical errors. Diagrams are sloppy. The student does not demonstrate an understanding of the function of the skin.

Keywords

English Language Arts	Mathematics	Science
Reading-Comprehension, Research	**Algebra**	**Earth Science**
Writing-Grammar, Spelling	**Geometry**	**Life Science-Anatomy, Cells, Human Body**
Communications	**Statistics**	**Chemistry-Chemistry in Daily Life, Molecules, Reactions**
Literature	**Calculus**	**Physics**