



Gold Seal Lesson

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| Author(s): Elizabeth Pierce | | | Lesson Title: Jules Verne-20,000 Leagues Under the Sea-The Fishy Ichthyologist | | | |
| Grade Span | | | ICLE Application Model | | | |
| K-4 | 5-8 X | 9-12 | A | B X | C | D |

Instructional Focus:

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| 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

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| <p>The student reads <i>20,000 Leagues Under the Sea</i> by Jules Verne. Professor Aronnax sees fish he has never seen before on Captain Nemo's submarine, the <i>Nautilus</i>.</p> <p>The student researches fish and becoming a researcher of fish (an ichthyologist) as a profession. The student talks to the guidance counselor, the science teacher and, if possible, an ichthyologist about fish and becoming an ichthyologist. The student writes on a computer about a fish and the characteristics of the fish that he or she finds most interesting about the fish. The student also writes about the process to becoming an ichthyologist and the skills required. The student then creates a three-dimensional model of the fish that he or she has written about. The student interviews the art teacher for ideas and suggestions on correct construction of the three-dimensional model.</p> <p>The student gives an oral presentation on the three dimensional model fish, how he or she constructed it and characteristics of the fish.</p> |
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ICLE Essential Skills

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| Apply in writing the rules and conventions of grammar, usage, punctuation, paragraphing and spelling. (ela 1) |
| Gather information from a variety of sources, including electronic sources, and summarize, analyze, and evaluate its use for a report. (ela 3) |
| 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) |
| Present information in well-organized fashion that will be clear to the target audience. (ela 11) |
| Draft a report that engages an audience and is concise, clear, well-organized, accurate, and informative. (ela 12) |
| Understand the nature and purpose of and be able to word process a variety of formats including essays, business letters, memos, instructions, policy statements, technical proposals, user manuals, lab reports, etc. (ela 30) |
| Gather information such as data, facts, ideas, concepts, and generalizations from oral sources. (ela 51) |
| Know the characteristics, roles, and divisions of complex organisms (i.e., plants and animals). (s 30) |

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 Fish and the Profession of Ichthyologist**
- Makes proper use of technology using at least two internet sites
- Uses other various sources for research

- **Interviews Guidance Counselor, Art Teacher, and (if possible) Ichthyologist**
- Makes appointment
- Conversation is productive

- **Writes about Fish and about Becoming an Ichthyologist**
- Uses ichthyology terminology appropriately
- Identifies and explains fish and significant characteristics
- Identifies process to becoming an ichthyologist
- Identifies skills required
- 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

- **Creates 3-D Model Fish**
- Is interpretable as a fish
- Applies knowledge of ichthyology to 3-D model
- Is creative in construction
- Is neat in appearance

- **Technology**
- Makes proper use of technology

- **Task Management**
- Manages time wisely
- Manages communication with people in a timely and courteous fashion
- Cooperates with others as needed

Keywords

| English Language Arts | Mathematics | Science |
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| Reading Independent Reading Research Integration | Algebra | Earth Science Nature Oceans Water |
| Writing Careers Composition Integration Word Processing | Geometry | Life Science Amphibians Behavior Biology Classification Ecosystem Environment Life Cycles Oceanography Zoology |
| Communications Interviewing Listening Integration Oral Presentation Visuals | Statistics | Chemistry |
| Literature Fiction Non-Fiction Integration World Literature | Calculus | Physics |
| Other Three Dimensional Art 3-D Model | Trigonometry | Other Ichthyology Ichthyologist Fish |
| | Other | |