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Lesson Title:

The Whales of Puget Sound: Part Two

Subject Area:

Science & Music Technology

Grade Level:

k-6

Lesson Summary:

This lesson is a continuation of "The Whales of Puget Sound". In that lesson, the students used computer technology and the Internet to obtain information about the Cetacean family (whales). They answered questions on a scavenger hunt about the four mammals found in Puget Sound. They used this information to write a three paragraph report on one of the mammals. In this lesson, the students will use their information to work cooperatively in groups of four to create a PowerPoint presentation that includes music created in the music class or downloaded from the Internet, graphics, and factual information.

Objective/Content Standard/Benchmark:

The students will: 1. Work effectively in small collaborative groups. 2. Use computer-keyboarding skills. 3. Access word processing and Internet software programs. 4. Use Internet sites to import graphics and/or sounds. 5. Use Music Instrument Digital Interface equipment and software. Washington State Essential Academic Learning Requirements include these points in the Arts section: Organize arts elements into artistic compositions. Use image, sound, action, and movement through the arts to express individual ideas for a specific purpose. Use combinations of art forms to communicate in multi-media formats. Use arts skills and knowledge in other subject areas. Recognize the influence of the arts in shaping and reflecting cultures and history.

Approximate Time Needed:

One month

Prerequisite Skills:

1. Ability to use word processing, copy and paste functions, keyboarding & mouse skills. 2. Basic knowledge of PowerPoint software. 3. Use Musical Instrument Digital Interface (midi) synthesizers to create and save recorded background music. 4. Be able to import the created midi files from a floppy disk.

Materials and Resources Required:

Technology:

Microsoft Word PowerPoint software Synthesizer Music Lab & music publishing software
Computers as available, preferably two per group of four students with printer access

Printed Materials:

Written report from previous lesson.

Supplies:

Formatted disks for groups Attachments for this lesson include: Web page, Whale PowerPoint Presentation, Puget Sound Scavenger Hunt, Folk Song Listing and Assessment Rubric

Others:

Lesson extension: Students can take a family field trip to the Seattle Aquarium. While in Seattle, they can also visit a whaling wall titled "The Orcas of Puget Sound" which is located on the Seattle Waterfront. It was painted by Wyland and was dedicated in 1984. Another place to visit is the Whale Museum in Friday Harbor on San Juan Island.

Procedures:

To begin the lesson, the teacher will present a sample PowerPoint slide show to display expectations of the project. (It is also available on our created web page.) The students will use the information gathered in the previous lesson to make a PowerPoint presentation about whales. Each person in the group will create at least two pages of the presentation. The slide show will include the following elements: Title page, a page describing what a whale is, two pages for each mammal (including facts & pictures), import created music from the music lab, downloaded sound clips from the Internet, and a concluding page. The students will use Internet sites or teacher-created picture files to find useable graphics (depending on ability & time limitations).

Modifications for Differentiated Instruction:

For the special needs student:

1. Pair the special needs student with a capable student who can assist in designing the assigned pages.
2. Use para-educators, adult volunteers, or cross-age tutors from other classrooms.

For the gifted student:

1. Browse the Internet for appropriate picture sites, (instead of using teacher-created picture files), to import graphics. 2. Enter the created PowerPoint presentation into a student contest for science. 3. Join a scientist aboard the vessel "Whale Song" and follow the activities of Cetaceans that he is studying. <http://whales.ot.com> 4. Share your presentation with other students at Internet sites such as: <http://www.kidlink.org/>
<http://www2.ncsu.edu/unity/lockers/project/midlinknc/vy/index.local.html>
<http://www.telenaut.com/gst>

Student Assessment:

Students will be assessed on several criteria: 1. Self & Peer Assessment 2. Teacher Rubric (Student Project Assessment) 3. Teacher Observation

Lesson Evaluation:

Since this lesson has not been tried with students, we feel the following adjustments may need to be done: 1. Change project requirements as needed 2. This lesson is an extension of a previously taught segment. It is aimed for the later part of the school year. 3. If students have difficulty using computer concepts as listed above, then re-teach prerequisite skills.

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