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Mapping the ocean floor worksheet

After an introduction in which students try to identify hidden objects from the sounds they make when shaking in a box, students use a string to map the seabed model by taking depth readings to simulate sonar. Mapping the seabed lesson plan OLP#7: The sea is largely unexplored. Printer-friendly NGSS Science and Engineering Practices: NGSS Crosscutting Concepts: NGSS Disciplinary Core Ideas: Figures 7.48 to 7.51 Table 7.6 Ruler 3-D seabed model (or other objects) in cardboard box, covered with paper Paper pencil pencilance Ground damper Tape Wooden skings Pen or fine-tipped mark (optional) Procedure A. First study in 1940. Imagine it's 1940 and you've got your dream job as an overseas herd on a research vessel that uses single-beam sonar technology to explore the pre-mapped part of the seabed. You want to do a major study of your study area, but your grant office first asks for general seabed topography. Your job is to study your seabed effectively, report back to the finance office with visible seabed topography so you can request additional funds. Get a 3-dimensional seabed model in your teacher's paper-covered box. Paper represents the surface of the water. If your teacher hasn't already done so, tape the paper over the paper cover with a 1cm grid. Mark a straight line over the grid paper with a ruler that represents a transect line. The line should extend from one edge of the grid to the opposite edge, but it does not have to be perpendicular to the edges perpendicular. This is the line your boat takes in this area of the ocean. The finance office has given you money for 20 depth probes (wooden sedations) along your transect. You don't need to use all 20 sounds, but you should use enough to take enough samples from the seabed. Make traces of your transect, where you make the depth sound. Depth tones shall be made at regular intervals along the transect. The intervals shall not be closer than 0,5 cm apart. Measure the span between each sleevant (e.g. sensors can be 0.5 cm apart, 1 cm apart, etc.). Insert the sharp snal sensor. Keep the sensor upright and be careful not to allow it to slide down in the model. For each position, measure the distance in centimeters with the sensor in place. This corresponds to the depth of the seabed. Use one of the following methods to insure the depth of the seabed (or come up with it in your own way):P hand sleeds after touching the seabed with water (paper) on the sleet. Gently pull out the snout and measure into your pressed fingers. Mark the place where the snil has water (paper) with pencil or tape. Gently pull out the slean and measure the make or tape of the pen. Remove the tape or pencil mark before continuing. Make Tea centimeter ruler. Make clear ruler marks with a pen or fine-tipped characters on the slean (starting with a point). When touching the bottom of the slee, read the ruler marker where it meets the water (paper). Store each depth in the right place in the grid. You can mark this information directly in the grid covering the seabed box, or print another grid where the data is posted. Note that depth measurements (below paper or waterline) are negative because they represent heights below sea level. You can use the information to make a profile along a transect line on the seabed in Figure 7.51.Save the interval between each skein of the x-axis. The top line of this grid represents the waterline. Store depth from the waterline (paper in the seabed model) on the seabed of the y-axis. View, identify, and mark the properties of the profile's seabed. Use the terms in Table 7.6. B. Second study in 1943. Based on the preliminary transect, your finance firm has awarded you additional research money to make a more complete map of your seabed area using a single-beam sonar. You can take an unlimited number of depth tones, but you only have 10 minutes to explore further. The first transe allows you to develop a mapping procedure for the remaining area. Do you continue to make transects, or do you take a deeper look at a specific area of the seabed? Write down the planned action. Follow your instructions for 10 minutes. If you typed your measurements directly into a grid taped to the seabed box, carefully remove the grid from the paper covering the seabed box without revealing the seabed (don't look in the seabed box!). In the next part of the action, you color-code and draw outlines on the seabed grid. Talk to your class to standardize colors and outlines so that grids on different seabeds can be compared.a. Color coding (see figures 7.49 and 7.50, for example)Your class color scheme should be (lowest deepest): red – orange – yellow – green – blue – purple. Set the depth scale to match these colors. For example, from zero to -1 cm can be red in color, -1 -2 cm can be orange, etc. Develop a label for your color-coded depth scale (you can use Fig. 7.43 as a sample). OutlineDeermine with your class at regular depth intervals draws the outline in the grid (e.g. 0.5 cm or 1 cm). Note this interval in the grid. Color-coded the known sonar points on the seabed grid. If there's a part of your seabed that you haven't explored, don't make assumptions about features (you might leave uncharted areas empty). Draw the outline in the seabed grid. If there's a part of your seabed that you haven't explored, don't make assumptions properties (you can leave uncharted areas blank). Identify all additional features found in your investigation. The terms in Table 7.6 are used). C. Review of the study in 2005. You've been given the opportunity to land on the seabed on a submarine on your 90th birthday. Since you are so famous, you can choose a submersible diving spot. You decide to return to the part of the seabed you originally studied at the beginning of your career and compare the original single bean sonar mapping with the actual seabed. Remove the box cover and examine the actual seabed. Describe the similarities and differences between the profile map, subsequent research and the actual seabed. Activity questions: How does your original transktd map of the seabed compare to the additional information collected from the second search? How could you take advantage of what you learned during the initial transit to develop your procedure in Part B? How did additional B-section studies, such as coloring the depth of sonar points and drawing outlines, increase your knowledge and interpretation of the features of the seabed? Which error sources in the procedure may have contributed to the discrepancy in the map? How does a map created with additional data (Part B) compare to the actual seabed? You removed the seabed grid from part C to reveal the seabed and check the accuracy of the forecasts. In real life, scientists can't remove seawater to check their measurements. How do you think researchers check the accuracy of the mapping data collected? How do you think the properties of the seabed formed? Table of Contents: After an introduction in which students try to identify hidden objects with sounds shaken in a box, students use a string to map the seabed model by taking depth readings to simulate sonar. Mapping the seabed lesson plan OLP#7: The sea is largely unexplored. Printer-friendly NGSS Science and Engineering Practices: NGSS Crosscutting Concepts: NGSS Disciplinary Core Ideas: Figures 7.48 to 7.51 Table 7.6 Ruler 3-D seabed model (or other objects) in cardboard box, covered with paper Paper pencil pencilance Ground damper Tape Wooden skings Pen or fine-tipped mark (optional) Procedure A. First study in 1940. 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