

Name _____

Topographic Maps

Go to: http://www.classzone.com/books/earth_science/terc/navigation/investigation.cfm,

Click on: 'How are Landforms represented on Flat Maps?'

Step 1: Earth's Varied Topography

1. Define topography- _____
2. Click the image to see a simulated flyby of Death Valley, California. Write a detailed description of the topography that you encounter during this flyby. _____
3. What do light areas on the surface represent? _____
4. What part of CA is Death Valley located (click on where on Earth)? _____

Step 2: Showing Topography on Maps

1. When you click on identify, what three features appear? _____, _____, _____
2. Click on the Topographic Map, what is the highest elevation on the map? _____
3. Where on Earth is this map located? _____

Step 3: Contour Lines and Elevation

1. Which part of this land is the last to flood as the water rises? _____

Step 4: Reading Elevation from Contour Lines

1. What does the line of the contour indicated? _____
2. Why do only the heavier lines show labels? _____
3. What does the contour interval tell? _____
4. What is the elevation of the points marked A: _____ B _____ and C _____

Step 5: The Spacing of Contour Lines

1. What do closely spaced contour lines indicate about the shape of a feature? In other words, when the lines are close together, does the feature have gentle slopes or steep sides? _____

Step 6: Closed Contours

1. What is the pattern of the contour lines around a simple hill? _____

Step 7: Contour Lines and Valleys

1. Make a sketch of the pattern of the contour lines moving up the valley. Draw an arrow to indicate the direction in which water flows across the lines.

Step 8: Hachures on Contour Lines

1. What landform feature does the model show, and what do hachures on contour lines indicate?

Step 9: Mount Shasta in 3-D

1. Describe the structure inside the box on the map. _____
2. Where in CA is this mountain? _____

Step 10: Interpreting a Topographic Map

1. Identify the feature A _____, B _____
2. What is the lowest elevation on the Map _____, highest? _____
3. What color are the lowest areas on the map represent in _____, highest? _____

Step 11: A Topographic Tour

1. Click on the Map of Meteor Crater and type in the Meteor Crater, AZ. What is the elevation at the bottom of Meteor Crater? _____, at the top? _____

Step 12: Visualizing Topography With Space-Based Technology

1. What did the Shuttle Radar Topography Mission (SRTM) do in 2001?
2. Where in CA is this image located? _____