

Exploring the Solar System : Remote Sensing

Answer the following questions from Activity 93 and Activity 94. In Exploring Earth Science.

Activity 93 (page G-40)

Resources: graph and topographical map done in class

1. Compare the graph you made in Part A to the false-color topographical map you made in Part B. Did the additional data from your classmates change how you visualized the surface of the planet? Explain how.

2. Look at maps on page G-40 of the textbook or linked on my website. Both are maps of the same area.

Map A is a false-color topographical map, and map B is a line topographical map.

- a. Describe the surface shown in the map
- b. What are the advantages of the false-color topographical map?
- c. What are the advantages of the lined topographical map?

Activity 94 (page G-43)

Resources: notes from the image activity

1. In the images, how is the surface of the Earth:
 - a. Similar to the other two planets?
 - b. Different from the other two planets?

2. Look at the image on page G-43 of the textbook or linked on my website. It is made by remote sensing. Can you tell from the surface feature which planet it shows? Explain why or why not.

3. How could remote-sensing be used to help prepare for a mission to another planet?

Earth and Space: Describe the Properties of objects in the Solar System

Highly Proficient	Proficient	Close to Proficient	Developing
<ul style="list-style-type: none"> ❑ Planet image is identified with significant evidence. ❑ All questions are answered with detail and evidence. 	<ul style="list-style-type: none"> ❑ Differences and similarities between planets are correctly compared and contrasted. ❑ Map analysis is complete and correct. ❑ Meaningful ideas are given for how remote-sensing can be used. 	<ul style="list-style-type: none"> ❑ Some description of the images / planets are given ❑ includes some misinformation / map is analyzed incorrectly ❑ explanations need more evidence and detail. 	<ul style="list-style-type: none"> ❑ Little to no knowledge of remote sensing is given. ❑ not attempted

	<input type="checkbox"/> Planet image is identified. A reason is given.		
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