Topographic Map Webquest Name_____#_____

Use the following link to access the webquest. Complete the 12 steps and answer the following questions.
http://www.classzone.com/books/earth_science/terc/content/investigations/es0307/es0307page01.cfm

Step 1: Earth's Varied Topography

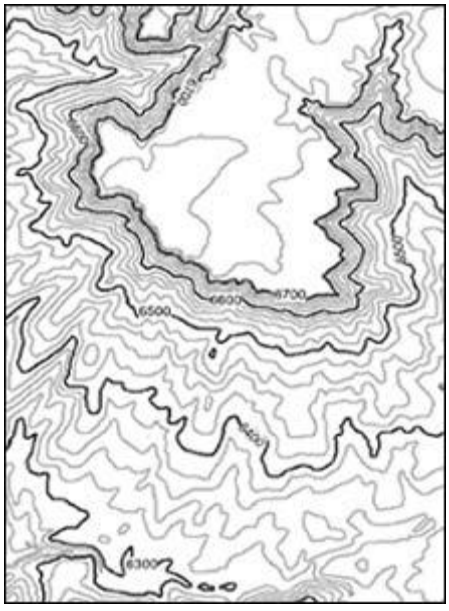
1. Write a **detailed** description of the topography that you encounter during this flyby.

Step 2: Showing Topography on Maps

2. Compare the photo to the topographic map. **Describe** the pattern of the contour lines around features on the photo.

Step 3: Contour Lines and Elevation

3. Use a colored pencil to shade the part of this land that is the last to flood as water rises .



Step 4: Reading Elevation From Contour Lines (Use the enlarged map provided by the teacher)

4. What is the elevation of the points marked A, B, and C?

   A: _____

   B: _____

   C: _____

Step 5: The Spacing of Contour Lines

5. Describe the overall shape of the landscape. Be specific.

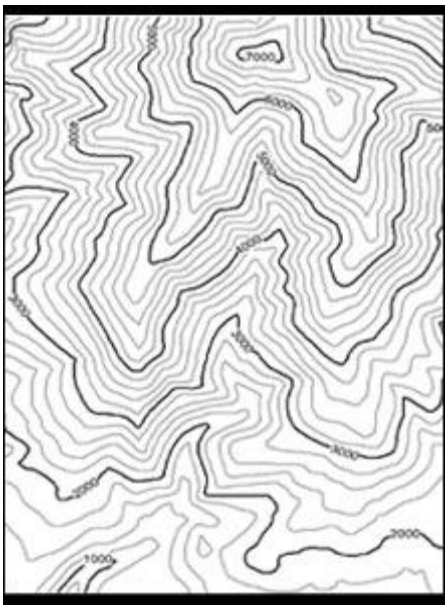
6. What do closely spaced contour lines indicate about the shape of a feature? In other words, when the lines are close together, does the feature have gentle slopes or steep sides?

Step 6: Closed Contours

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

Step 7: Contour Lines and Valleys

8. Use a highlighter to mark the valley on the topographic map. Draw arrows to indicate the direction water flows across the contour lines.



Step 8: Hachures on Contour Lines

9. What landform feature does the model show? What do hachures on the contour lines indicate?

Step 9: Mount Shasta in 3-D

10. Describe the structure inside the box on the map.

Step 10: Interpreting a Topographic Map (Use the enlarged map provided by the teacher)

11. Identify the features marked at A and B.

    A. _____

    B. _____

    Where is the elevation the highest? _____

    Where is the elevation lowest? _____

Step 11: Topographic Tour

12. Which of the landforms was easiest to recognize from its topographic map?

Step 12: Visualizing Topography with Space-Based Technology

13. Write a summary of what you learned from this activity as a whole.

Topographic Map Webquest **KEY**

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Step 1: Earth's Varied Topography

1. Write a **detailed** description of the topography that you encounter during this flyby.

   Answers will very but should include:

   Death Valley: mountains, valleys, very dry, no vegetation, salt beds

Step 2: Showing Topography on Maps

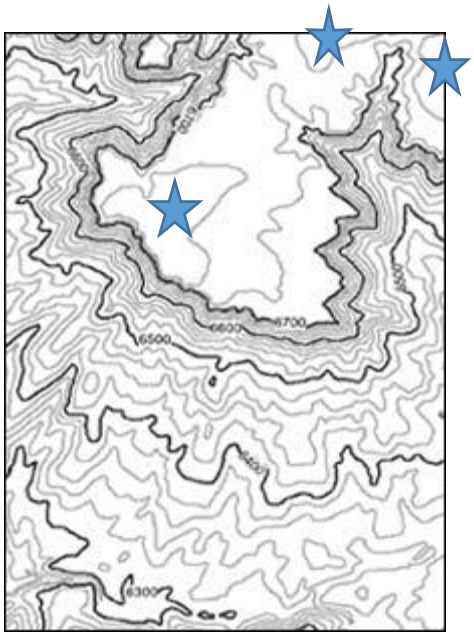
2. Compare the photo to the topographic map. **Describe** the pattern of the contour lines around features on the photo.

   Answers will vary but should include: **contour lines show steep regions and flatter areas, contour lines provide more details about the elevations and flow of the streams, Photograph provides a general image of the layout/ landscape**

Step 3: Contour Lines and Elevation

3. Use a colored pencil to shade the part of this land that is the last to flood as water rises .

   3 stars are on the regions that should be colored



Step 4: Reading Elevation From Contour Lines (Use the enlarged map provided by the teacher)

4. What is the elevation of the points marked A, B, and C?

   A: _____

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C: _____

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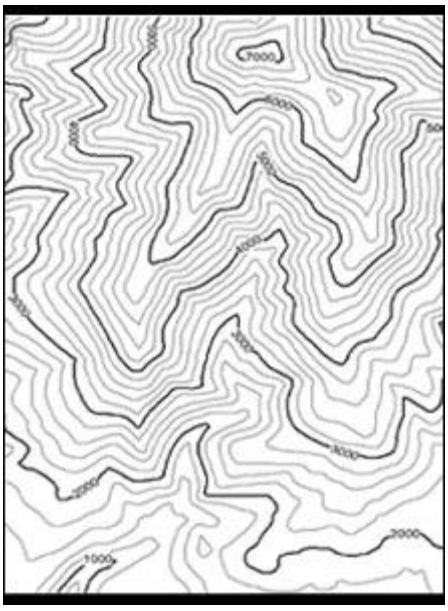

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11. Identify the features marked at A and B.

    C. _____

    D. _____

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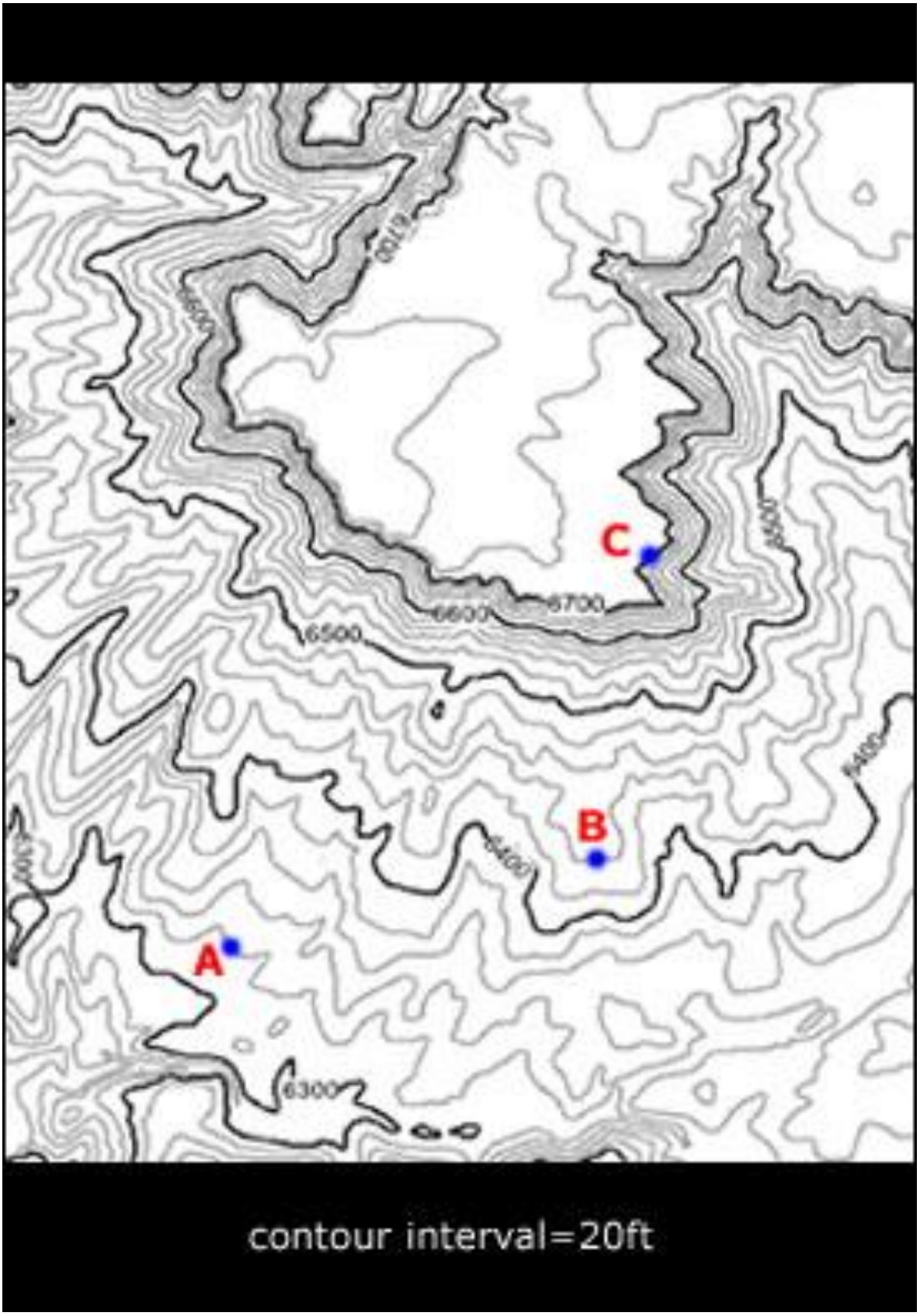
Step 12: Visualizing Topography with Space-Based Technology

13. Write a summary of what you learned from this activity as a whole.

Step 4 Map: Reading Elevation From Contour Lines


C
B
A
6700
6500
6300
contour interval=20ft

Step 10: Interpreting a Topographic Map