

Name:

Date:

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Unit 1: Introduction to Physical Geography

Directions:

Be sure to complete all of the readings and assigned questions. Be aware that the unit test questions will refer not only to concepts covered in the worksheets, but also to readings from your textbook. Answer each question as completely as you can.

Introduction:

Read pages i—ii in *Studies in Physical Geography (1st edition)*.

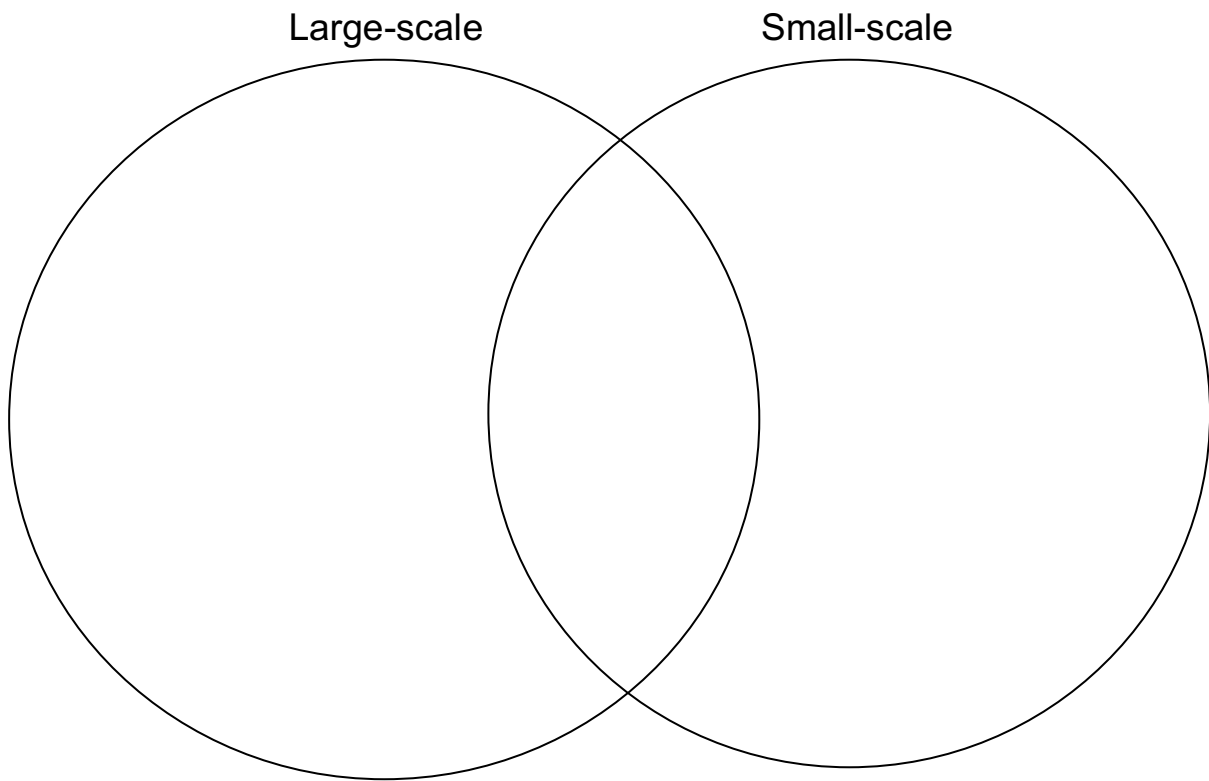
1. Provide a brief explanation of each of the 5 themes of geography. (10 marks)

2. The earth is composed of four spheres, the lithosphere, biosphere, atmosphere, and hydrosphere, that constantly interact with one another. It is important to understand each of the spheres and how they interact, as they are the foundation on which all geographic processes are built. Write a brief definition for each of the four spheres. (8 marks)

3. In the space below, make your own version of the diagram located on page ii. This diagram helps to demonstrate some of the ways in which the spheres interact with one another. Feel free to provide additional interactions and illustrations. (10 marks)

Read Unit 5: Topographic Mapping on pages 170—180 of the textbook, then answer the questions below.

8. Use this Venn diagram to show the similarities, differences and shared features of large scale and small scale maps. (3 marks)



9. Grid lines are printed on maps with a scale of 1:250000 or larger. Vertical lines (called eastings) determine east-west position, while horizontal lines (called northings) determine north-south position. Geographers use six-digit grid references use grid lines to describe the exact location of a feature, like a bridge, radio tower, or lake.

To find the exact location of the water tower in figure 38.3 follow the steps provided. Now attempt to find the 6-digit grid reference numbers in figure 38.4. Your answers do not need to be exact, it is more important to understand the process required. (4 marks)

- i. Point X
- ii. Point Y
- iii. Tree
- iv. Dry Lake

10. Provide a description of each of the following: (4 marks)

Measuring straight line distance

Measuring curved line distance

Measurement of regular area

Measurement of irregular areas

11. Contour lines are defined as a line on a map that connects points of equal distance in height above or below sea level. What other information do contour lines provide map readers? (3 marks).