Science Activities
**(Suggested: 25 minutes of off-line activities)**

TEKS: 8.9C

MONDAY
Topographic Maps

Most maps show a view of Earth from directly above. Some maps show streets and other show borders between towns, counties and states. A topographic map shows the elevation, or height above sea level, of natural features of a region. On a topographic map, features are represented using lines and symbols. The most important function of a topographic map is to show elevation. Lines on a topographic map that connect areas with the same elevation are called contour lines.

Topographic maps display three-dimensional features of the land on a flat map. The diagram below shows a simple topographic map. Look at the map and answer the following

1. Write three things about topographic maps.

Tuesday

Contour interval = 20 feet
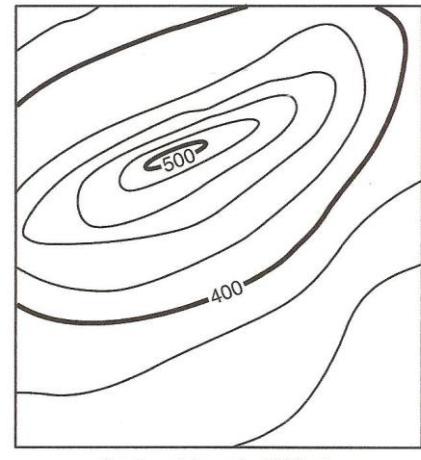
Questions:

1. This map is a hill. What two elevations are labeled?

2. The elevations lines without numbers can be determined by knowing the contour interval. What is the contour interval on this map?

3. What are the elevations of the lines between 400 and 500?

Wednesday

The diagram to the right shows how a topographic map is related to the shape of the land. Answer the questions below.

1. Which is higher, hill A or hill B?

2. Which hill is steeper, hill A or hill B?

3. What is the contour interval of this map?

4. How tall is hill A?

5. How tall is hill B?
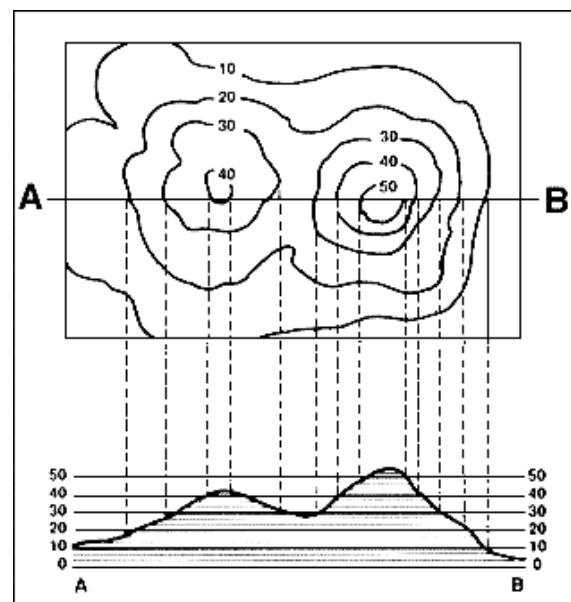
6. The bottom part of the map-the side view- shows hill B taller than 50 ft. Why isn't this shown on the topographic map?

Thursday

1. What does it mean when a topographic map shows contour lines far apart?

   A. The land is steeply sloped

   B. A river runs through the area

   C. The land is nearly flat

2. Which of the statements about contour lines is **false**?

   A. Contour lines never cross

   B. Contour lines show elevation above sea level

   C. Contour lines always have the same space

   between them.

Write the letter of the profile that matches the topographic map in the box.

3. _____
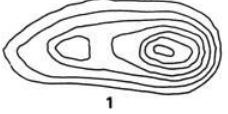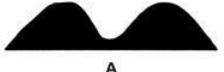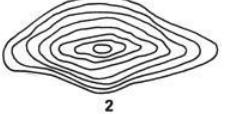
4. _____

5. _____

6. _____

7._____

8._____
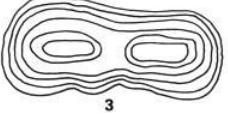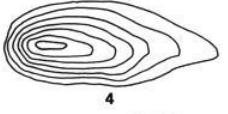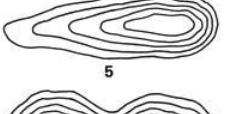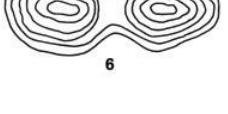
Math Activities
(Suggested: 25 minutes of off-line activities)

Monday – Thursday

Expressions

Problems 1-3: Use Movie Theatre Admission ticket information.

Movie Theatre Admission

Adults: $8 Children (under 13): $5 Matinee (before 6 P.M.): $3

1. Janelle (age 12) and her cousin, Marquita (age 14), go to a 7:00 P.M. show. Write an expression for the total cost of admission. What is the total cost?

2. Jan takes her three children and two neighbor's children to a matinee. All of the children are under age 13. Write an expression for the total cost of admission. How much in all did Jan pay for admission?

3. Connor (age 13), his sister (age 7), and Connor's parents go to a movie on Saturday night. Write an expression for the total cost. What is the total cost?

4. Frankie orders two hamburgers and a soda for lunch. A hamburger is $3 and a soda is $1.00. Write an expression to show how much he paid for lunch. Then find the value of the expression.

5. A store sells barrettes for $2 each and combs for $1. Shelby buys 3 barrettes and a comb. Kendra buys 2 barrettes and 4 combs. Write an expression for the amount the two girls spent all together. Find the total amount spent.

6. Eduardo is 16. Eduardo's dad takes him and his younger sister to a soccer match. Tickets are $17 for adults and $13 for children (18 and under). Write an expression for the total cost of the tickets. What is the total cost of the tickets?