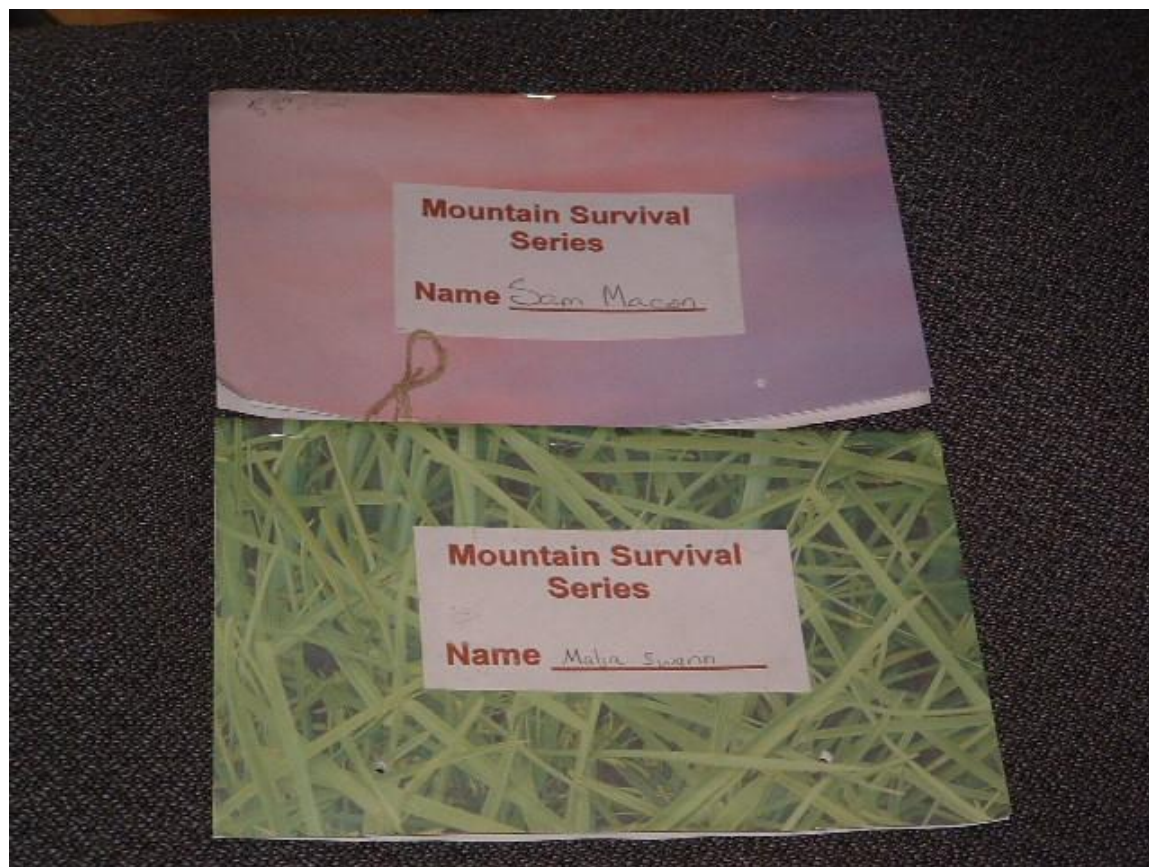


MYSTIC MOUNTAINS: SAMPLE STUDENT PRODUCTS

Example Journal or “confessional”



Example 3-D representation of a 2-D topographic map



Topographic Map Application Activity (page 1): Excellent Example


Excellent Example

Katie

Topographic Map Activity
Renfro Middle School
Earth Science

Materials: colored pencils (blue, red, brown, green)

Study the attached map.

1. What is the contour interval of this map? (the numbers represent feet)
10
2. What is the highest index contour of this map?
1050
3. What is the elevation of Renfro?
1040
4. Find the hill at Agnes Scott College where the observatory is located (hint: look to the east of the track). What is the elevation of the observatory hill?
1030
5. Find Shoal Creek. It is indicated by a dashed line. Outline the creek with a blue pencil throughout its length. What is the creek's elevation?
930
6. Do you think that water running off the parking lot from Renfro might eventually run into Shoal Creek? Why or why not?
No because it have to go uphill
7. What symbol is used to indicate a school on this topographic map? Draw the symbol here.

8. Color all the school symbols on this map with a red pencil.
9. How can you tell where the tops of hills are located?
They are little circles
Color in the tops of at least 5 hills on this map with a brown pencil.
10. If you like to ride up and down hilly terrain on your bicycle, what region of this map would be more fun for you, northeast (NE), northwest (NW), southeast (SE), or southwest (SW)?
SE
11. Can you find a depression on this map? Is so, color it green.

Topographic Map Application Activity (page 2): Excellent Example

Handwritten calculations:

$$\begin{array}{r} 4 \\ 156 \\ \hline \end{array}$$

$$\begin{array}{r} 1030 \\ -950 \\ \hline 80 \\ 56 \end{array}$$

Pretend that you are at McKoy Park. Trace the following route with your finger. You exit from the west side of McKoy Park and turn right onto McKoy St. You go one block and turn right on Benson St. You go one block and turn left onto Adams St. You cross over Oakview Rd. and continue straight on Adams St. until you get to Renfro at the intersection of Adams St. and College Ave. If you were riding a bicycle on this route, you just rode up and down some steep inclines. Here is how the elevation changes on this route: at McKoy St., 1030 ft; at McKoy and Benson, 1040 ft; at Benson and Adams, 1020; at Oakview Rd., 950 ft.; then you start climbing back up until you get to Renfro at 1040 ft. Notice that you started at 1030 ft. and your final elevation at Renfro is 1040 ft., just a 10 foot difference. However, you started at 1030, went down to 950, and then went back up to 1040 ft. The elevation change of your ride was 1040 (the greatest elevation on the route) minus 950 (the lowest elevation on your route) or 90 feet; you just climbed a nine story building on your bicycle!

Here is a challenge. You are exiting McKoy Park from the west side of the park on McKoy St. You would like to ride to Renfro on your bike, but you are trying to avoid hills. You sprained your ankle while playing softball, and it hurts when you put pressure on it. You must follow streets, and you don't mind going a little extra distance as long as your route has the least amount of elevation change possible (that is, NO BIG HILLS). Figure out the best route to accomplish this goal, and give directions for your route.

Take a left on McKoy + take the first right on Spring St. At Fayetteville turn right. Turn left onto Underwood St. Then turn right on Oakview. Take a left on Mead Rd, all the way up to E. College Ave. + turn right. You will find your self at Renfro.

Topographic Map Application Activity (page 3): Excellent Example



Topographic Map Application Activity (page 1): Mediocre Example

Grace Ray Mediocre Example
Mediocre Example

Topographic Map Activity
Renfro Middle School
Earth Science

Materials: colored pencils (blue, red, brown, green)

Study the attached map.

1. What is the contour interval of this map? (the numbers represent feet) 10
2. What is the highest index contour of this map? 1050
3. What is the elevation of Renfro? 1040
4. Find the hill at Agnes Scott College where the observatory is located (hint: look to the east of the track). What is the elevation of the observatory hill?
1030
5. Find Shoal Creek. It is indicated by a dashed line. Outline the creek with a blue pencil throughout its length. What is the creek's elevation? 1030
6. Do you think that water running off the parking lot from Renfro might eventually run into Shoal Creek? Why or why not? No, because it would have to go up hill.
7. What symbol is used to indicate a school on this topographic map? Draw the symbol here.
A
8. Color all the school symbols on this map with a red pencil.
9. How can you tell where the tops of hills are located?
There's the m they are circles with no circles inside
Color in the tops of at least 5 hills on this map with a brown pencil.
10. If you like to ride up and down hilly terrain on your bicycle, what region of this map would be more fun for you, northeast (NE), northwest (NW), southeast (SE), or southwest (SW)?
SE
11. Can you find a depression on this map? Is so, color it green.
NO

Topographic Map Application Activity (page 2): Mediocre Example

Pretend that you are at McKoy Park. Trace the following route with your finger. You exit from the west side of McKoy Park and turn right onto McKoy St. You go one block and turn right on Benson St. You go one block and turn left onto Adams St. You cross over Oakview Rd. and continue straight on Adams St. until you get to Renfro at the intersection of Adams St. and College Ave. If you were riding a bicycle on this route, you just rode up and down some steep inclines. Here is how the elevation changes on this route: at McKoy St., 1030 ft; at McKoy and Benson, 1040 ft; at Benson and Adams, 1020; at Oakview Rd., 950 ft.; then you start climbing back up until you get to Renfro at 1040 ft. Notice that you started at 1030 ft. and your final elevation at Renfro is 1040 ft., just a 10 foot difference. However, you started at 1030, went down to 950, and then went back up to 1040 ft. The elevation change of your ride was 1040 (the greatest elevation on the route) minus 950 (the lowest elevation on your route) or 90 feet; you just climbed a nine story building on your bicycle!

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Go out on the westside of McKoy then turn left then right and then right again. Then turn right on the street that College Heights School is on

Go out on ~~the westside~~ of McKoy then turn ~~on a~~ left on Spring St. Then turn right on East Lake, Then take a left on Mead Rd. Then turn right ~~turn~~ on College and turn right on Adams street

Topographic Map Application Activity (page 3): Mediocre Example

