

Topographic Map: Imagination Location

A student generated topographic map

OVERALL SCORE:

State Standards: Recognize, interpret and be able to create models of the earth's common features in various mapping representations including contour maps. (8.E.1)

<u>Novice</u> <i>begins to approach expectations</i>	<u>Apprentice</u> <i>approaches expectations</i>	<u>Proficient</u> <i>meets expectations</i>	<u>Distinguished</u> <i>exceeds expectations</i>
Map Content			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you use a minimum of six symbols to show permanent features in your landscape?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you include a map key that clearly defines the symbols and contour interval used on map to indicate permanent features in your landscape?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you draw features of map in accurate proportion ?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Is there a minimum of 10 separate contour lines properly labeled with elevations and consistent contour interval used throughout map?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you include at least one body of water (lake, river, stream, etc.) with logical placement?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you use contour lines to indicate at least three separate points of elevation increase (incline) or decrease (decline)?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you include an accurately drawn compass rose?	<input type="checkbox"/>

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		<u>Written Description: Type 4</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Does your written description of map accurately describe the major landforms? (FCA)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you accurately uses 5+ vocabulary words with correct spelling and underline words? (FCA) (EC)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you write in complete sentences with proper capitalization and punctuation? (FCA) (EC)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Is your writing clear and easy to understand? (EC)	<input type="checkbox"/>
		<u>Quality and Format</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Is your map neatly colored with realistic color choices for features? (EC)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Is your written description neatly hand-written or typed? (SD)	
		<u>Process</u>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Did you use class time efficiently and meet deadlines along the way? (SD)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you used the peer editing/conferencing form to revise and edit your writing? Can we see evidence of improvements made from rough to final draft? (EC)	<input type="checkbox"/>

Topographic Map

Steps to Success

You will create a topographic map of an imaginary place or base it on an existing place that they are already familiar with like Nashoba Valley Ski Area or Great Brook Farms. Your map should be easy to read and proportionately accurate so that the relative size of one feature as compared to another feature is realistic. Your choice of symbols for the physical features you are representing and the colors you choose for your map features should also realistically reflect each feature. For example, blue wavy lines are a realistic way to reflect a body of water.

Your map must include the following:

- **Key** – located somewhere on your map defining at least six symbols of earth's physical features (examples: lakes, rivers, mountains) or manmade permanent structures (examples: airport, school, roads, railroads) that you included on your map. You should include at least one body of water.
- **Contour Lines** –You can choose your contour interval, which should remain the same throughout your map. You must have at least ten contour lines on your map. Your map must include some steep slopes and some gentle slopes.
- **Compass Rose** – Your map must have a compass rose indicating north, south, east, and west.

Remember to draw features on your map in proportion to other features on your map. For example, a road in the middle of a town should not be drawn as wide as a major highway on your map.

Steps: **Please check each step as it is completed.**

- 1. Sketch a **rough draft** of your map on a separate piece of paper using a pencil only before making a final version on your large paper. This will give you a chance to experiment with different geographical features before making your final map. It will also help you to decide on a scale that is appropriate for the size of the area you are mapping. You may need to do several rough draft sketches before you are ready to move on to your final draft. **Due**_____
- 2. Use your rubric to make sure your rough draft contains all of the items that are required.
- 3. Make decisions about the colors you will use to represent the features included on your map.
- 4. Draw your **final draft** of the map on the large paper using a pencil. Once the entire map is drawn and features are proportional, then use colored pencils to add color to the map. **Due**_____
- 5. Use your rubric to check your final draft of your map to make sure it contains all required elements.

- 6. **Type 4 Writing:** Write a written description, which describes the topography of the area included in your map. Set up your paper with the school heading and record the FCA's (focus correction areas) below your heading. You can abbreviate the FCAs as they are written in parentheses when you write them on your paper. When you write, skip lines.

FCA- Accurate description of the major landforms on map (Description)

FCA- 5 + accurate use underlined vocabulary words with proper spelling (5+ vocab with sp)

FCA- complete sentences

Due _____

- 7. After you finish a draft of your writing, read your writing aloud to your self. Edit your work. Focus on making improvements to the 3 FCAs, but do not ignore other mistakes you find. Make changes on your paper using carats and the lines you originally skipped.
- 8. Your teacher will assist you in finding a partner for peer editing. Read your writing out loud to your partner. After both students have read, trade papers and edit for the focus correct areas. Again, do not ignore other mistakes you find but focus on the 3 FCAs. You will need to look at your partner's map in order to assess the first FCA. Please do not make corrections on your partner's paper, but identify problems by using editing symbols and writing questions and suggestions (What do you mean by....? I think you only have 3 vocabulary words....). Make sure to include at least one specific, positive comment about your partner's paper- a strong sentence, clear explanation, 100% complete sentences, etc.
- 8. Make a clean copy of your writing. Neatly write or type.
- 9. Use your rubric to check all of your work that you are about to hand in. Then, hand in your work to the class tray. Put papers in this order from top to bottom and paper clip together: rubric, writing final draft, map final draft, all rough drafts **Due**_____

Extension Ideas

As always, you can work towards Distinguished by going above and beyond the requirements listed on the rubric. Make sure your work on the required elements is polished, and would achieve Proficient or higher before beginning an extension. If you have another idea for a related extension, tell your idea to your teacher before you begin.

1. Make an elevation profile view (side view) of your map. (You can see an example of this in the "What do Maps Show?" packet). Very lightly in pencil, use a ruler to draw a straight line across your map. Using a sheet of graph paper, draw a scale along one axis of the graph to show all of the elevation changes along your line. Your scale must include the lowest elevation and the highest elevations that are on your line. Make sure the scale you use is consistent throughout the entire graph. Then, start at one side of the line you drew on your map and plot the changes in elevation along the other axis of the graph.

2. Build a three-dimensional model of your landform using clay or layers of cardboard.