

Mastery Opportunity –Mapping

Mastery assignments are optional, but are due **ONLY** on the day of the test.
Choose any two of the following four assignments.

Option 1:

1. Name 5 items that might be included in a legend for a map.
2. Explain the difference between a contour line and a contour interval.
3. How is the diagram for a hilltop different from that of a depression?
4. How is the diagram for a steep slope different from that of a gentle slope?
5. Explain the importance of the scale on a map.

Option 2:

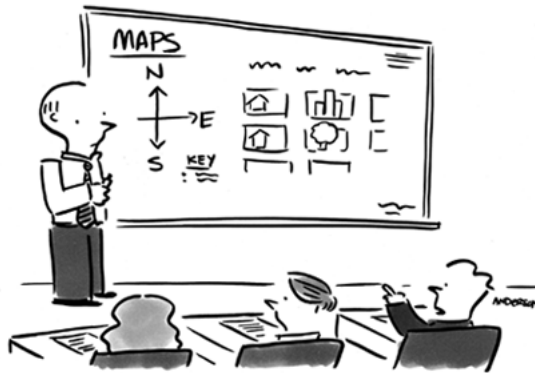
Create a lesson for a middle school science class that teaches mapping.

You must include:

1. Detailed instructions for determining latitude and longitude.
2. Use a NC map (with lat & long) and come up with an activity that teaches:

- Find lat & long of city
- Give name of city when given lat & long
- You will need a minimum of 6 questions

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"My dad's GPS says I don't need to learn how to read maps."

Option 3:

Create a topographic map that shows an island in the middle of Jordan Lake. Your island must show the following:

- Elevation of the lake is 220 ft.
- The island is wider at the NE end and very narrow at the SW end.
- There is a small hill at the NW part of the island that rises to a peak of 47 ft above the level of the lake.
- There is a foot path that goes around the island.
- There is a rope swing located in the SE corner of the island.

Option 4:

Print out this map of NC that gives latitude and longitude:

<http://www.mapsofworld.com/usa/states/north-carolina/lat-long.html>

Highlight the following cities on the map AND write their latitude & longitude on the map.

| | |
|------------|--------------|
| Raleigh | Fayetteville |
| Murphy | Greensboro |
| Manteo | Durham |
| Wilmington | Wilkesboro |
| Roxboro | Brevard |
| Boone | Chapel Hill |
| Beaufort | Charlotte |

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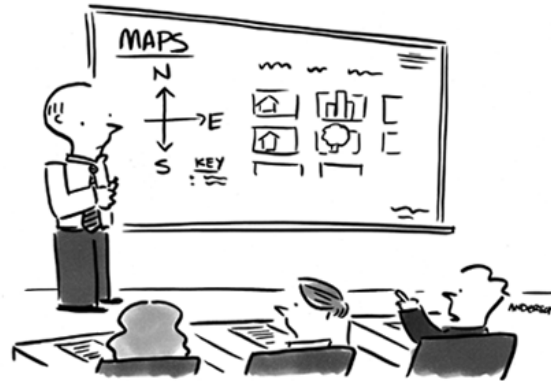
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