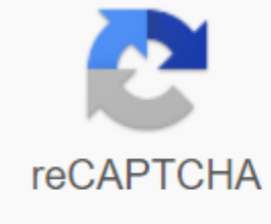




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Isotherm map worksheet

Project a picture of the weather map showing the current temperature across the UNITED States. These can be found with a quick Google Image Search for weather maps. Here's an example: Ask students to describe the patterns they see in the picture. What information is displayed? What's the unit of measure like? When was this captured? What do the colors represent? What are the boundaries between colors? Is there a key we can create? If you have the option to project this picture on a whiteboard, ask the student to come and draw lines across the map at the color boundaries. What do they notice? These lines (isotherms) represent areas with similar temperatures. Ask your students what would lead to the creation of these areas? How are the air masses involved? What would this map look like at different times of the year? Here are some more pictures. Consider the key at the top of the first: Next, show them a different weather map, the one showing the isobars. Again, a quick search of Google pictures will create these. Here's an example: In addition to isobars, this map also includes the centers of high and low pressure surfaces, the position of warm, cold and stationary fronts and precipitation. Ask the students again what they notice in the picture. Let them focus on the lines and ask what they might represent. Direct your thoughts by asking them to notice the spacing between lines near high and low pressure centers. Higher pressure = lines are even further apart; lower pressure = lines are closer together. They're called isobars, lines of the same air pressure. Show them the following map, which includes values for each line: You can tell students that these are values for air pressure at the water level. Ask them how values would change if measurements were taken at higher and yet higher altitudes. This should be a transparent question for them if you have previously learned a lesson about the relationship between air pressure and height, as the lesson found here. Show them the last image shown below, which was projected on to a whiteboard that includes only air pressure values, not lines. Ask the volunteer to come on board and ask them to link lines of similar pressure, which starts at the highest then lowest values first, by circling areas of high and low pressure. Then proceed from the centers. Below is an example of a finished map. Note, may also have identification centers of high and low pressure. Isobars - Display the best 8 worksheets found for this concept. Some worksheets for this concept are Activity 8 drawing isobars level 2 targets national, Atmospheric air pressure, Weather Activity 4 isobars, Isobars and air pressure responses, Lesson plan, Isobar and isotherm map lab, Weather Unit Science Cycle 3 Weather Forecasting, Physical Setting. Have you found the worksheet you're looking for? To download/print, select on the print icon or print icon on the print or download worksheet. The worksheet opens in a new window. You can & download or print with browser document reader options. Options.

