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Date: 10/29/12

Student Exploration: Weather Maps

Vocabulary: air mass, air pressure, cold front, high-pressure system, knot, low-pressure system, precipitation, warm front

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- How would you describe your weather today? It is odd, clear skies, and a cold front is passing through. We are experiencing high pressure.
- What information is important to include when you are describing the weather? temperature, cloud cover, fronts, and pressure are important to include.

Gizmo Warm-up

Data on weather conditions is gathered from weather stations all over the world. This information is combined with satellite and radar images to create weather maps that show current conditions. With the Weather Maps Gizmo™, you will use this information to interpret a variety of common weather patterns.



A weather station symbol, shown at right, summarizes the weather conditions at a location.

- The amount of cloud cover is shown by filling in the circle. A black circle indicates completely overcast conditions, while a white circle indicates a clear sky.
What percentage of cloud cover is indicated on the symbol above? 25%
- Look at the "tail" that is sticking out from the circle. The tail points to where the wind is coming from. If the tail points north, a north wind is moving from north to south.
What direction is the wind coming from on the symbol above? southwest
- The "feathers" that stick out from the tail indicate the wind speed in **knots**. (1 knot = 1.151 miles per hour.) A short feather represents 5 knots (5.75 mph), a long feather represents 10 knots (11.51 mph), and a triangular feather stands for 50 knots (57.54 mph). Add the feathers to find the wind speed.

What is the wind speed shown on the symbol above? 25 knots

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H Kauffman



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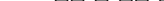
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