

Name:

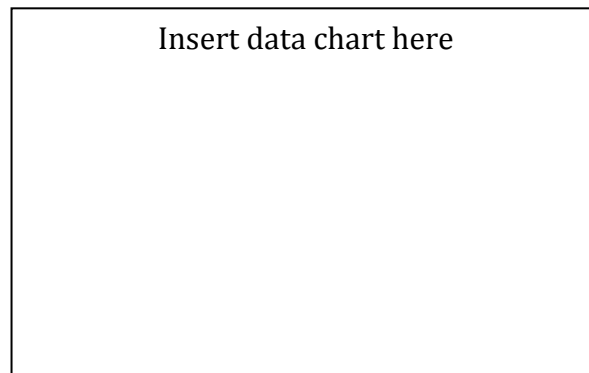
Period:

### Using GPS data to explore tectonic plate movement

Day 4 lesson overview: Students will use GPS tracking data to explore the ways in which the tectonic plates moved.

Note: Teacher should locate data that shows the approximate yearly movement of each tectonic plate.

Directions: Use the data from the chart to draw arrows on the map for how each plate moves. Draw small arrows for smaller numbers (1–6cm/year). Draw large arrows for larger numbers such as 10 cm/yr.



#### Part 1:

<p style="text-align: center;"><b>What do you think? (Predict)</b></p> <p>Circle one:</p> <p><i>I think the Earth moves at <b><u>the same rate</u></b> in different locations around the world.</i></p> <p><i>I think the Earth moves at <b><u>different rates</u></b> in different locations around the world.</i></p>	<p style="text-align: right;"><b>Observe</b></p> <p>On the map I see _____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<b>Evaluate</b>	
<p>My prediction was correct/incorrect. (circle one)</p> <p>I know this because _____</p> <p>_____</p>	

Statement #1: “All the tectonic plates move in the same direction.”

Your evaluation: The data provided in the table support/do not support (circle one) the

statement because

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Statement #2: "*The tectonic plates move at different rates.*"

Your evaluation: The data provided in the table support/do not support (circle one) the

statement because

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