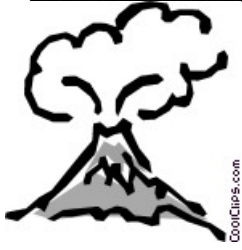


Name: \_\_\_\_\_



# PLATE TECTONICS PROFICIENCY TABLE



Benchmark/ESLR	Indicators for Proficiency
1a. Students know knowledge of plate tectonics is derived from many pieces of evidence.	<ul style="list-style-type: none"> <li>• Explain Wegner's contributions to our current idea of plate tectonics</li> <li>• Explain plate tectonics and at least 4-6 pieces of evidence that supports our current knowledge.</li> <li>• Explain the relationship between sea floor spreading, continental drift, and plate tectonics</li> </ul>
1b. Students know Earth is composed of several layers.	<ul style="list-style-type: none"> <li>• Draw and label a cross section of the earth that shows relative proportions of each layer</li> <li>• Describe at least 3 major characteristics of each of Earth's layers.</li> </ul>
1c. Students know lithospheric plates the size of continents and oceans move at rates of centimeters per year in response to movements in the mantle. 4c. Students know heat from Earth's interior reaches the surface primarily through convection.	<ul style="list-style-type: none"> <li>• Identify what causes the movement of Earth's plates.</li> <li>• Describe the process that causes Earth's plates to move.</li> <li>• Identify the energy source that causes the movement of Earth's plates.</li> <li>• Distinguish between different types of lithospheric plates.</li> </ul>
1e. Students know major geologic events, such as earthquakes, volcanic eruptions, and mountain building, result from plate motions.	<ul style="list-style-type: none"> <li>• Plot earthquakes accurately on a world map</li> <li>• Use knowledge of plate tectonics to predict location of earthquakes and volcanoes</li> <li>• Explain what causes earthquakes</li> <li>• Describe how volcanoes form</li> <li>• Describe how mountains such as the Himalayas form.</li> </ul>
1f. Students know how to explain major features of Earth's geology (including mountains, faults, volcanoes) in terms of plate tectonics.	<ul style="list-style-type: none"> <li>• Explain what happens at divergent, convergent, and transform boundaries.</li> <li>• Give examples for the different types of plate boundaries</li> <li>• Describe the landforms and/or events that will occur at each of the 3 different plate boundaries</li> </ul>
ESLR: Communicate Effectively	<ul style="list-style-type: none"> <li>• Writing on projects and assignments gives details and specific examples to show understanding</li> <li>• Use good presentations skills (eye contact, volume level, limited fidgeting or crutch words)</li> <li>• Show listening skills through participation in class discussions and connections to others' input</li> </ul>
ESLR: Personal Management	<ul style="list-style-type: none"> <li>• Turn in assignments on time</li> <li>• Show your best effort on all assignments</li> <li>• Use class time wisely</li> <li>• Stay on task with minimal teacher reminders</li> </ul>
ESLR: Works Collaboratively	<ul style="list-style-type: none"> <li>• Work with peers to complete assigned task</li> <li>• Allow all members of group to contribute to task</li> <li>• Give constructive feedback</li> <li>• If disagreements occur be polite and listen to all points of view</li> </ul>
ESLR: Complex Thinking	<ul style="list-style-type: none"> <li>• Make connections between topics</li> <li>• Apply concepts to new situations</li> </ul>
ESLR: Global Citizen	<ul style="list-style-type: none"> <li>• Demonstrate understanding of the human impact caused by natural disasters</li> </ul>