Name _____ Class Period ____

Plate Tectonics Project (45 pts.) This project is due Tuesday 12/23/16. See rubric on back.

Objective: To creatively synthesize, explain, and communicate the scientific ideas and concepts of Continental Drift, Seafloor Spreading, and the Theory of Plate Tectonics. Choose 1 of the following:

1. Create an original piece of art (mural, collage, sculpture, painting, or drawing) and include a 5 paragraph written explanation of your art.

2. Create a computer based presentation using at least text and images.

3. Create an original model. Include a 3 paragraph written explanation of your model.

4. Create a children's book. Use at least pictures and text.

5. Think of your own idea to accomplish the objective above. (Must have teacher's approval before you begin)

Use the following as a checklist to make sure you include all information that you need.

____ Explain continental drift hypothesis and its developmental history.

____ Who created the hypothesis of continental drift?

____ What evidence (3 types) did scientists use to support continental drift? Explain.

____ Explain seafloor spreading and its developmental history.

____ Who discovered seafloor spreading?

____ How did seafloor spreading help scientists explain continental drift?

____ Explain the theory of plate tectonics?

____ Analyze and discuss the four types of plate boundaries that are illustrated on page 236 of the textbook.

____ Describe the type of geographical features and tectonic forces that can occur at the 4 types of plate boundaries.

____ Make sure your first and last name/class period is clearly visible on all parts of the project.

____ Make sure your project is neat, colorful, and creative.

____ If your work is typed, use at least 12pt. font, and double spaced. If your work is written, make sure it is clearly legible. **Rubric and checklist is attached to the project.**

Requirement	9-10 points	7-8 points	5-6 points	0-5 points

Continental Drift _____	Provides a clear and focused explanation of continental drift. Identifies the scientist responsible for this theory and accurately explains at least three pieces of evidence supporting continental drift.	Provides a brief explanation of continental drift and some of the evidence used to support this theory, but fails to go into any detail.	Mentions continental drift but fails to provide an explanation of the theory or any of the evidence used to support it.	Provides no explanation of continental drift, the scientists responsible or any of the evidence used to support it.
Seafloor Spreading _____	Provides a clear and focused explanation of sea floor spreading, discussed the scientist responsible for discovering it. Clearly explains how sea floor spreading helped scientists explain continental drift.	Provides a brief explanation of sea floor spreading, and the scientist responsible for its discovery. Attempts to explain how sea floor spreading allowed scientists to explain continental drift	Mentions seafloor spreading and who is credited with its discovery, but fails to provide any explanation.	Provides no mention of seafloor spreading, the person responsible for its discovery or how it supports the theory of continental drift.
Plate Tectonics _____	Explains the theory of plate tectonics correctly. Explains 4 plate boundaries and the relative motions of the plate at those boundaries. Identifies landforms and forces at each boundary.	Provides a brief explanation of plate tectonics explains 4 plate boundaries but does not go into great detail. Some discussion about landforms and natural disasters.	Identifies types of plate boundaries, but does not discuss the geographic landforms or natural disasters. Does not explain the theory of plate tectonics.	Provides no explanation of plate tectonics or the types of plates and landforms that exist.
Organization of	**5 points**	**4 points**	**3 points**	**0-2 points**

Project				
Class Productivity _____	Used all class time well and was a 7th grade scientist all the time. Worked well with others and NEVER needed redirection.	Used most of class time well. Showed some evidence of being a 7th grade scientist. Worked well and needed redirection several times.	Distracted others. Did not use class time productively. Little evidence of being a 7th grade scientist.	Wasted class time. Was unable to focus on class expectations
Accuracy and Completeness _____	All portions of the project were completed. Exceeded expectations.	One portion of the project was incomplete.	Two – three portions of the project were incomplete.	Sections are not relevant to project and/or major ideas are missing.
Overall Design and Effort _____	Final project is neat, colorful, consistent format, paraphrased and properly cited. All Spelling/grammar correct.	No more than 4 errors.	Five or more errors.	Very little effort for final product.

Total Points _____/ 45