Earth Systems Model

Objective: The student will create and present a physical or conceptual model explaining the four major Earth Systems.

- **Plan** – Students will make a plan for their model by asking the following:
    - What are the four major Earth Systems?
    - What features of each system can I include in my model?

- **Materials** – Students will compile a list of materials by asking the following:
    - What will my model look like?
    - How will it communicate clearly the four Earth Systems?
    - What will I need to complete the model in this way?
    - Do I have access to these materials? If not, are there other material I can use instead?

- **Analyze and Revise** – Students will improve their models by asking the following:
    - What changes to your model would make the information more clear?
    - What could you add? What could you remove?
    - Is all the information from your plan on your final product?

- **Creation** – Students will create their models in class on ~~Thursday~~ tomorrow. Bring any materials you need with you to school.

- **Presentation** – Students will present their model in class on Tuesday, January 10th

- **Evaluation** – Models will be assessed using the rubric on the back of this sheet. (Please bring this with you to class on Tuesday.)

RubiStar Rubric Made Using:
RubiStar (http://rubistar.4teachers.org)

Building A Structure : Earth Systems Model

Teacher Name: **Ms. Duvall**

Student Name: _____

CATEGORY	4 25pts.	3 20pts.	2 10pts.	1 5pts.
Scientific Knowledge	Explanations by all group members indicate a clear and accurate understanding of scientific principles underlying the construction and modifications.	Explanations by all group members indicate a relatively accurate understanding of scientific principles underlying the construction and modifications.	Explanations by most group members indicate relatively accurate understanding of scientific principles underlying the construction and modifications.	Explanations by several members of the group do not illustrate much understanding of scientific principles underlying the construction and modifications.
Construction -Materials	Appropriate materials were selected and creatively modified in ways that made them even better.	Appropriate materials were selected and there was an attempt at creative modification to make them even better.	Appropriate materials were selected.	Inappropriate materials were selected and contributed to a product that performed poorly.
Construction - Care Taken	Great care taken in construction process so that the structure is neat, attractive and follows plans accurately.	Constuction was careful and accurate for the most part, but 1-2 details could have been refined for a more attractive product.	Construction accurately followed the plans, but 3-4 details could have been refined for a more attractive product.	Construction appears careless or haphazard. Many details need refinement for a strong or attractive product.
Participation/Presentation	Stayed on task throughout the entire completion of the project. Presented the project clearly to the class.	Stayed on task throughout most of the completion of the project. Presented the project somewhat clearly to the class.	Stayed on task throughout some of the completion of the project. Presented the project to the class, but questions had to be asked for clarification.	Did not stay on task for the project. Did not present or did not give clear descriptions in presentation.

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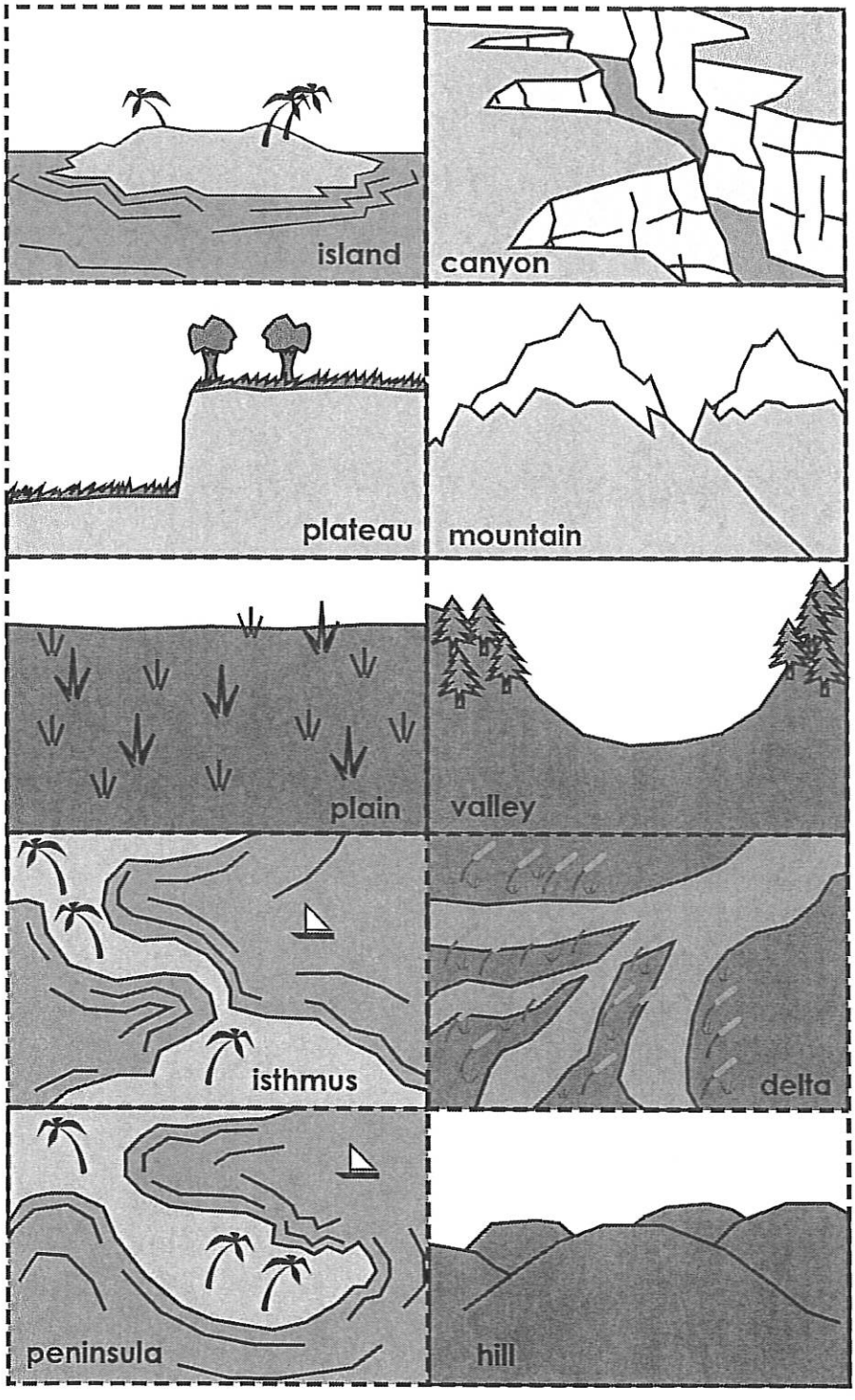
Name: _____

Landforms

Cut out the landform pictures on the next page. Glue each landform next to its description.

	a large area of flat land		a large area of flat land that is raised higher than the land around it
	a large, tall, rocky area of land that comes up out of the earth's surface		a mound of raised land that is smaller than a mountain
	a large crack in the earth formed by a river or earthquakes		a narrow strip of land that connects two large areas of land
	an area of land that is completely surrounded by water		a strip of land that extends out into a body of water
	low, water land that is formed at the mouth of a river		an area of low land between two mountains or hills


island
canyon
plateau
mountain
plain
valley
isthmus
delta
peninsula
hill