

Earth Science Quarter Project: 3D Sea Model

For the next few weeks, you will have the opportunity to create a 3D model of an ocean habitat and the organisms that live in that habitat inside a shoebox. The model will be made from your choice of materials so be creative, but neat. This is your opportunity to explore and have fun with science. Your project is due **Wed Feb 25, 2009**. There are several requirements for your project that are listed below.

Requirements:

- The model *must be* 3D and in a shoebox
- The model must include the required components
- All of the organisms must be labeled on the 3D model
- A typed reference sheet with all of the components as well as their descriptions
- The project must be sturdy enough to travel from home to school without falling apart
- A grading rubric attached to the reference sheet

In detail:

- Pick **one** habitat from the following choices and create a 3D model of that habitat inside of a shoe box:

Estuaries	Sandy shore	Coral reef
Mangrove forest	Rocky shore	Kelp forest
Salt marsh	Tide pool	

- Find **four** types of animals and **two** types of plants that live in that habitat and place them in your box. You may have to do some research beyond the book.
- Each organism must be clearly labeled! The type of organism must be correct for the habitat. For example, you should not have a blue whale on a sandy shore!
- Be creative with your building materials but be aware that they should be sturdy and non-perishable. I don't want to place these models on display and have moldy oceans!
- Shoeboxes can be positioned in any way (i.e. standing upright, on side, or lying on the table) and be of any size. Make sure that your name and the type of habitat is written on the box. You will receive points off for a project without a legible, visible name.
- Models should be sturdy enough to make the trip from home to school without breaking. Models that cannot make this trip and arrive to school broken will have points deducted. This means that you should choose your building materials carefully.
- In addition to your shoebox model, you will create a reference sheet. This reference sheet should contain the following information:
 - A description of the habitat that you picked
 - The type of zone that the habitat is in
 - A list of the 6 organisms (plant and animal) that are found in your habitat and a brief description of them. For example, if you have a crab in your habitat, you could say that crabs are crustaceans that use their front claws to rip their food and then place it in their mouths. They have a hard covering called an exoskeleton that protects them...
- This reference sheet should be typed, with Times New Roman font, size 12. You should also have 1 inch margins on your paper. Write your name on the top and attach the following grading rubric.

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A three dimensional model of an ocean habitat must be made with materials of your choosing. The model must include a reference list of all the above information.

Neatness (project must be 3D, neat, creative and sturdy)	/10
Organisms included	
Animal 1 (presence, appropriateness, description)	/5
Animal 2 (presence, appropriateness, description)	/5
Animal 3 (presence, appropriateness, description)	/5
Animal 4 (presence, appropriateness, description)	/5
Plant 1 (presence, appropriateness, description)	/5
Plant 2 (presence, appropriateness, description)	/5
Reference sheet with descriptions (typed with all of the organisms listed above and the information about the habitat)	/15
Your name on the project	/5
TOTAL	/60