

Steps to Create an Ocean Floor

You will use a box to represent an ocean. You will create an ocean floor that has volcanoes. To do this, you will build volcanoes that are taped on the bottom of the box.

Step One: Discuss the following with your group.

- How many volcanoes do you want to have on your ocean floor? You must choose between 1 -5 volcanoes. Do not choose more!
- How tall are the volcanoes?. Are you going to make very small volcanoes or very large ones?
- What materials you will use to build your volcanoes?
- Where they will be located in the ocean? Remember, the ocean is your box.

Step 2: Build volcanoes and tape them to the ocean floor.

- Build between 1 -5 volcanoes. Work as a group to build your volcanoes.
- You can use paper towel rolls, egg cartons, and cardboard to make your volcanoes.
- Securely tape the volcanoes to the bottom of the box. They CANNOT move!
- Make sure you leave one corner of the box empty, without a volcano

Example volcanoes

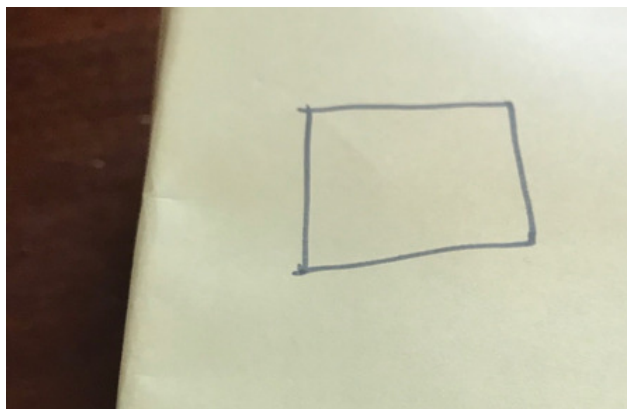


Step Three: Cover ocean floor.

- Tape a piece of paper over the entire box. The edges of the box should be covered. It is important that you tape the paper tightly. It cannot be loose.
- If you cannot cover the entire box with one piece of paper, ask your teacher for another piece of paper.



- Mark a square on your paper, above the empty corner of the ocean floor.



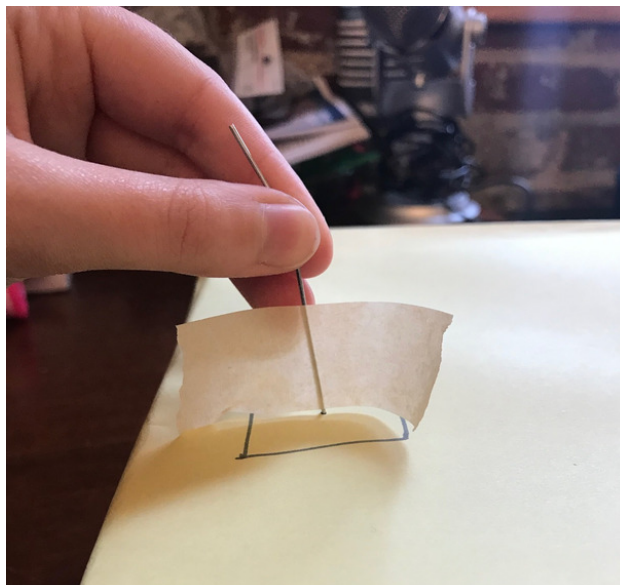
Steps to Map An Ocean Floor

Step One: Open up a paperclip so it is in a straight line.



Step 2: Figure out how deep the ocean is.

- To do this, you will carefully poke the paperclip into the area marked on the box. Poke the paper very gently, do not rip the paper! Notice the spot where the paperclip meets the paper. This is the height of the ocean. Mark your measurement with some tape.

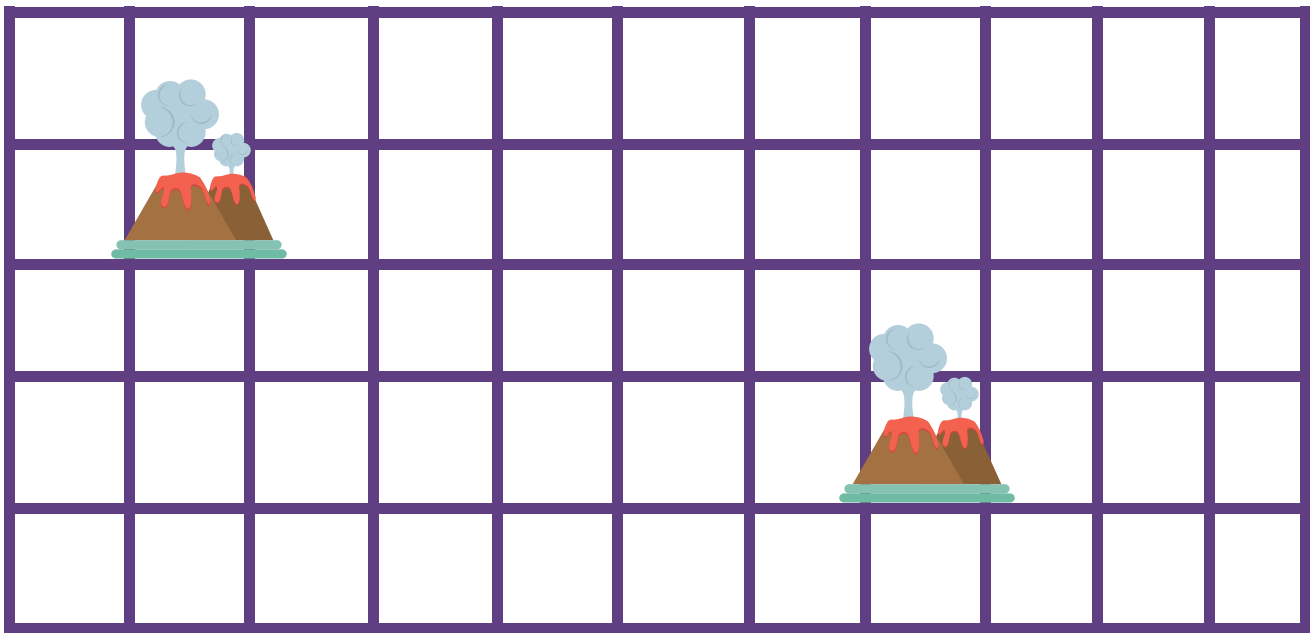


Step Three: Begin searching for volcanoes.

- Poke different spots of paper to find where the volcanoes might be. If your paperclip does not reach the bottom of the box, then you have found a volcano!

Step Four: Record your data

- When you find a volcano, draw it on the grid. The grid represents a map of the ocean floor. You will mark the area on the grid where you have located the volcanoes in your box!



Step Five: Check your results!

- Now it is time to take off the paper cover on the box and look at the volcanoes! Look to see if you accurately mapped their locations on your grid!

Grid Paper

Use this grid to map your ocean floor.

