



# SOS Explorer

## Earthquake Scavenger Hunt



SOS Explorer on your device:

- Be sure the SOS Explorer app is on one of your mobile devices. It is available for phones, tablets or Chromebooks.
- You can search “SOS Explorer” in an app store or follow the link on the Science on a Sphere website: [https://sos.noaa.gov/SOS\\_Explorer/](https://sos.noaa.gov/SOS_Explorer/)
- Be sure you have an Internet connection, launch the app, open up the dataset window.

Name

Class

Date

**Science on a Sphere is a presentation tool that was developed at NOAA in Boulder. The SOS team recently put together this app version as a free resource. We are excited for you to check it out!**

**Notice the green arrows that can show or hide the menu of datasets. You can see a menu of “All” datasets or look at different categories, such as “Land.”**

## Land

Find a dataset that shows Earthquakes.

- Describe where earthquakes around the world happen.
- How would you describe patterns of Earthquakes?
- What do the color and size of the Earthquake dots mean?

## Category - Land

Now open Plate Tectonic Boundaries over Earthquakes

- Describe the different types of boundaries and how they correlate with the size/strength of earthquakes.

## Category - Water

Find a dataset that you can view volcanoes and deep-sea vent locations

- Explain why would these phenomena also happen at the same location as Earthquakes.

Load a dataset that shows the age of the seafloor.

- Explain, if you can, how the age of the seafloor is connected to the plate boundaries? If not, what questions do you have looking at this dataset?

**Write down words or ideas that you don't understand ...**

either ask your teacher or look them up later.