

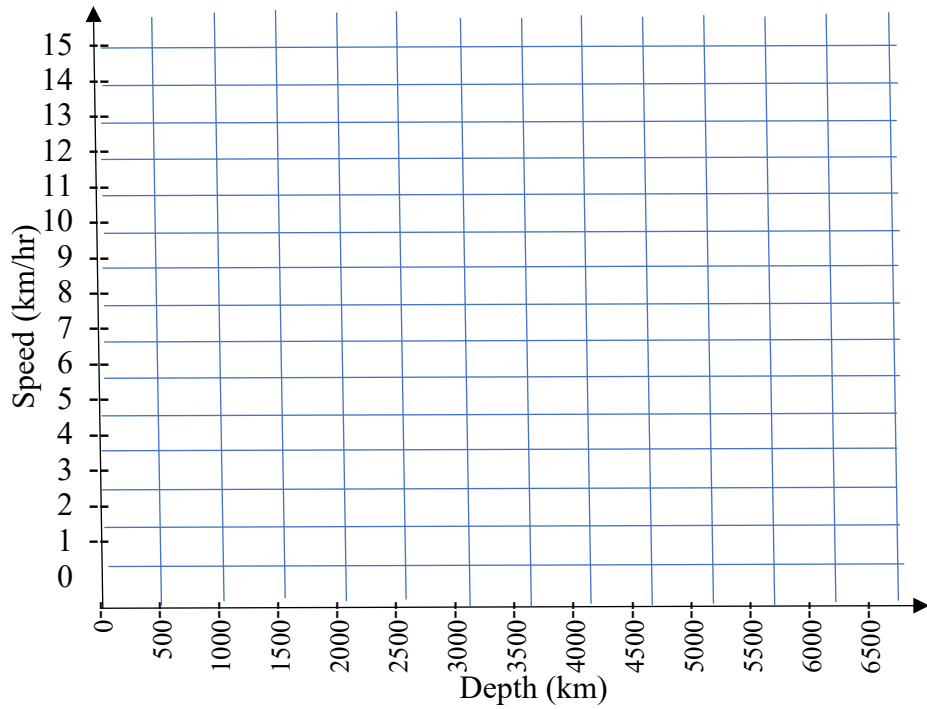
Elaborate: Using Seismic Waves to Determine Earth's Interior Structure

Name _____

1. Graph this data:

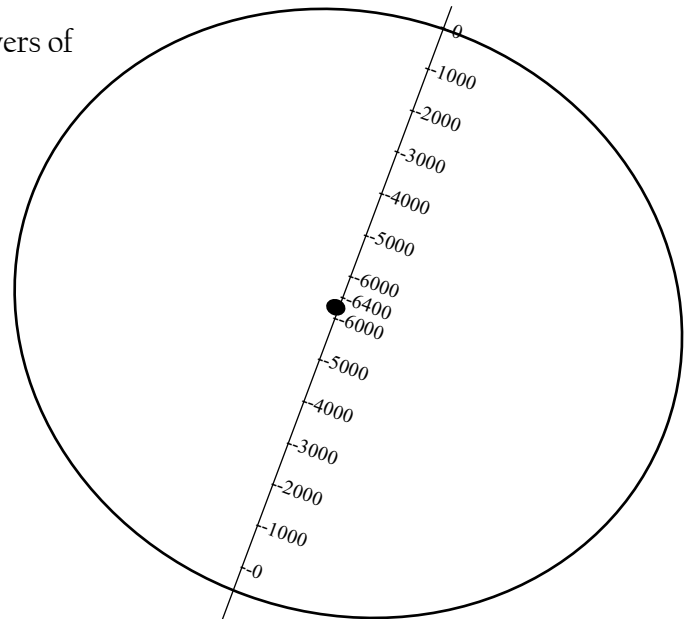
- Use a blue line for S
- Use a red line for P

p-wave speed	s-wave speed	depth
6	3.5	0
9	5	50
8	4	200
9	5	500
11	6	1000
13	7	2000
14	7.5	2900
8	0	2900
9	--	4000
10	--	5200
11	--	5200
11	--	5500
11	--	6000
11	--	6400



2. Analyze the data above to create a scale model of the layers of Earth's interior structure. Use the following labels and colors:

- Crust (brown)
- Mantle (red)
- Outer Core (blue)
- Inner Core (green)
- Solid
- Semi-solid
- Liquid
- Solid



3. Construct a model in the space below that illustrates why s-waves cannot travel through liquids.

