Ch 19 Earthquakes Section 2 Guided Reading: *Seismic Waves and Earth's Interior*

Scan .	Section 2 of your text. Write three facts you discovered about seismic waves as you scanned the section.
1.	
2.	
3.	
Use yo	our text to define the following terms
4.	mantle
5.	seismometer
6.	encounter
What	if a younger student is looking at the diagram above with you? Explain to the student how the ometer works.

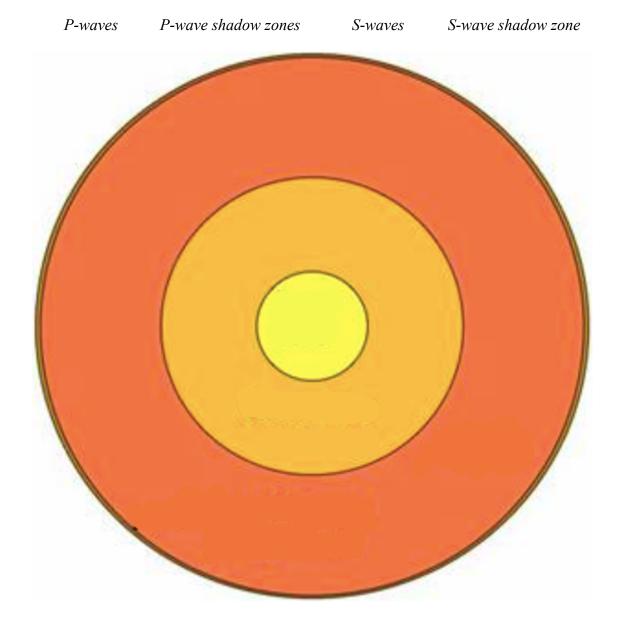
Create two questions that can be answered using information from Figure 9 (Time Travel Curves) in your book.
For example, "How long did it take the S-waves to move 2000 km from the epicenter of the earthquake?"

1.		
2.		

Label this model of the interior of Earth with the following:

Inner Core Outer Core Mantle Crust

Once you have labeled your model, **draw an earthquake focus** on the top of your model. Then draw and label how the following terms would appear. You will need to **draw** P & S waves on the diagram: **Hint**: pg16 of Notes



1.	What are the two types of seismic waves produced at the focus?
2.	Describe how these two different types of seismic waves affect the rocks through which they travel.
3.	What type of wave can travel through the core? Explain why this is the only wave type shown in the core.
4	What happens to P-waves when they strike the inner core?
7.	what happens to 1 -waves when they strike the limer core:
5.	What is the P-wave shadow zone?
6.	Why have scientists reasoned that Earth's outer core is liquid?
7.	How have scientists inferred the composition of Earth's interior?
8.	What would happen if S-waves encountered a lake or pond? Explain your reasoning.