

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Earthquakes and Seismic Waves

### Do Now:

1. What kinds of waves have you observed? \_\_\_\_\_

\_\_\_\_\_

2. How do waves move in water? \_\_\_\_\_

\_\_\_\_\_

### Discovery Activity:

3. Stretch the Slinky across the floor while one of your group members holds the other end. **Do not over stretch the**

**Slinky.** You should only stretch it about 6 feet long.

4. Gather about four coils of the Slinky and release them. Do not let go of the end of the Slinky. Carefully observe what direction the coils move.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

5. Draw a picture of how the Slinky moves. Make sure to draw **arrows** showing the direction it is traveling.



6. Stop the Slinky from moving. Jerk one end of the Slinky from side to side. Carefully observe what direction the coils move.

7. Draw a picture of how the Slinky moves. Make sure to draw **arrows** showing the direction it is traveling.



Name: \_\_\_\_\_ Date: \_\_\_\_\_

*Fill out notes below.*

***P waves***

8. \_\_\_\_\_ are waves that compress and expand the ground.
9. P waves are the \_\_\_\_\_ waves (primary) to arrive.

***S waves***

10. \_\_\_\_\_ are waves that vibrate from side to side as well as up and down.
11. S waves arrive \_\_\_\_\_ P-waves.

***Surface waves***

12. When P and S waves reach the surface, they become \_\_\_\_\_ waves.
13. Surface waves make the \_\_\_\_\_ move.

*Turn back to page 2 of this packet.*

14. Using the information you learned about seismic waves and label the first drawing as a P wave or an S wave.
15. Label the second drawing as a P wave or an S wave.