Name _____ Date _____ Class _____

Wave Behavior Lab

How does the behavior of a wave depend on its wavelength and composition of the object or material it encounters?

Hanger/Spoon Station

1. Follow the instructions on the station card. Record your observations below.

Type of Line	Observations

2. What type of wave is this (mechanical or light)?

_____

3. How is the wave behaving? Draw an illustration below.

4. How do the characteristics of the wave change with the materials it interacts with?

_____

_____

5. How might scientists use this wave behavior and its interaction with various materials to understand our environment, Earth, and space?

_____

_____

Flashlight Station

1. Follow the instructions on the station card. Record your observations below.

Material	Observations

2. What did you notice about the reflection of light from the mirror?

_____

_____

3. What type of wave is this (mechanical or light)?

_____

4. How is the wave behaving? Draw an illustration below.

5. How do the characteristics of the wave change with the materials it interacts with?

_____

_____

6. How might scientists use this wave behavior and its interaction with various materials to understand our environment, Earth, and space?

_____

_____

Sound in a Box Station

1. Follow the instructions on the station card. Record your observations below.

Material Around Sound Source	Distance Until No Sound	Other Observations

2. What type of wave is this (mechanical or light)?

   _____

3. How is the wave behaving? Draw an illustration below.

4. How do the characteristics of the wave change with the materials it interacts with?

   _____

   _____

5. How might scientists use this wave behavior and its interaction with various materials to understand our environment, Earth, and space?

   _____

   _____