

WAVE STATIONS

TUNING FORK STATION

1. Write down the number on the tuning forks.
Tuning fork #1:
Tuning fork #2:
2. What did you notice about the sounds each tuning fork made?
3. What did you feel when you tapped the tuning fork on the table or counter? What did you see?
4. What happened to the water when you placed the tuning forks on its surface?

WATER WAVES STATION

1. Sketch and describe the shape of the wave when the water drop hit the surface in the middle of the dish.
Sketch: Description:
2. Sketch and describe the shape of the wave when it hit the edges of the dish.
Sketch: Description:
3. Develop a prediction about what will happen when you let a drop of water fall closer to the edge of the dish.
Prediction:

4. Do your observations confirm the prediction you made above? Explain.
5. When a wave hits a wall, does the angle it hits at change how it bounces off?

RULER SOUNDS STATION

1. Develop a prediction about how the sound of the ruler will change when you change the amount it hangs off the table.

Prediction:

2. What happened to the sound of the ruler as you changed the amount hanging off the edge?

STRAWS STATION

1. Describe the sound that is produced by the straw.
2. Develop a prediction about what will happen to the sound if you shorten the straw.

Prediction:

3. Was your prediction about what would happen to the sound if the straw was shortened correct? Explain.
4. Now attempt to explain how the sound is created with the straw.

5. Based on what you've experienced, what do you think you would hear with a straw that is 2 meters long? What about a straw that is 2 centimeters long?

PRISM STATION

1. If you were able to see a rainbow after the light traveled through the prism, why do you think that happened?
2. Why do you think we had to move the flashlight around before we could see the rainbow in the prism?
3. Does light travel through outer space? Explain your answer.
4. Does sound travel through outer space? Explain your answer.

CUP SOUND STATION

1. What did you observe about the sound when you changed the cups?
2. Explain what you think caused the sounds to change.