

Name \_\_\_\_\_

# BEHAVIOR OF WAVES POSTER

## Intervention 8.2.5

Directions - complete each of the following activities to help you understand 4 main behaviors of waves.

**Task 1 - Reflection** - <https://www.youtube.com/watch?v=aAQYpra4aUs>

1. What colors make sunlight?
2. What colors bounce (reflect) off the leaf?

**Task 2 - Absorption** - <https://www.youtube.com/watch?v=VwNKPgo3oxA>

3. What colors make white light?
4. What color(s) does a lime absorb?
5. Explain why the green light did not pass through the red gummy bear.

**Task 3 - Diffraction** - [https://www.youtube.com/watch?v=ATI1MV20\\_Pk](https://www.youtube.com/watch?v=ATI1MV20_Pk)

6. What happens when a wave hits an opening?
7. Explain how sound can travel from one open window to another.

**Task 4 - Refraction** - <https://www.youtube.com/watch?v=FOwDgpKTqdY>

8. How does light travel in denser materials?
9. Explain how changing the density of materials causes light to bend.

On the back of this paper you will make a poster showing how light and sound waves interact when they hit a barrier or obstacle. The back of this paper has been divided into 4 different sections, one for each of the following; absorption, diffraction, reflection, and refraction. The poster needs to be **colored** and **neat** so that it is easy to understand.

In each box you should include:

1. A definition of each behavior
2. A **neatly colored** real world example picture for each behavior
3. Explain how the waves are moving in your real world example

# REFLECTION

Definition:

Colored Real World Picture:

Explanation of Picture:

# ABSORPTION

Definition:

Colored Real World Picture:

Explanation of Picture:

# DIFFRACTION

Definition:

Colored Real World Picture:

Explanation of Picture:

# REFRACTION

Definition:

Colored Real World Picture:

Explanation of Picture: