

# MIRROR-LIKE OBJECTS

## Lesson Plan

### SUBJECT:

Science

### GRADE:

5th Grade

### STANDARDS:

5.PS.2: Light and sound are forms of energy that behave in predictable ways. Light travels and maintains its direction until it interacts with an object or moves from one medium to another and then it can be reflected, refracted or absorbed.

### ACTIVITY:

*\*If the student's don't have previous knowledge about light and reflections, you will need to explain the concept of reflections first.*

1. Review what a reflection is. Discuss how light affects reflections, and how a reflection is a mirrored image.
2. Fill out the first two sections of the KWL assessment.
3. To help students visualize and understand, watch the video ["The Law of Reflection and Plane Mirrors"](#)
4. Show examples of reflections in objects (you can use the attached images).
5. Do the "Mirrored Reflection" Worksheet attached as partners or individually.
6. Gather together as a class, and discuss what they found.
7. Have the students choose two objects that they found their reflections in, and fill out the compare and contrast worksheet (attached).
8. As a class, discuss the answers to clarify the differences and similarities.
9. Fill out the last section of the KWL assessment.

### OBJECTIVES:

To be able to define, compare and contrast, and discover mirrored reflections.

### MATERIALS:

- [THE LAW OF REFLECTION AND PLANE MIRRORS](#) (VIDEO)
- KWL ASSESSMENT (ATTACHED)
- COMPARE AND CONTRAST SHEET (ATTACHED)
- WRITING UTENSIL
- EXAMPLES OF REFLECTIONS
- MIRRORED REFLECTION WORKSHEET

### PRIOR KNOWLEDGE:

Ohio Learning Standards: "Light can travel through some materials, such as glass or water. Light can also travel through empty space, like from the sun to Earth. When light travels from one location to another, it goes in a straight line until it interacts with another object or material. When light strikes objects through which it cannot pass, shadows are formed. As light reaches a new material, it can be absorbed, refracted, reflected or can continue to travel through the new material; one of these interactions may occur or many may occur simultaneously, depending on the material."

### ASSESSMENT:

KWL Chart

# Class KWL Chart

**LESSON:**

Mirrored Reflections

**I know that...**



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**I want to know about...**



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**I learned that...**



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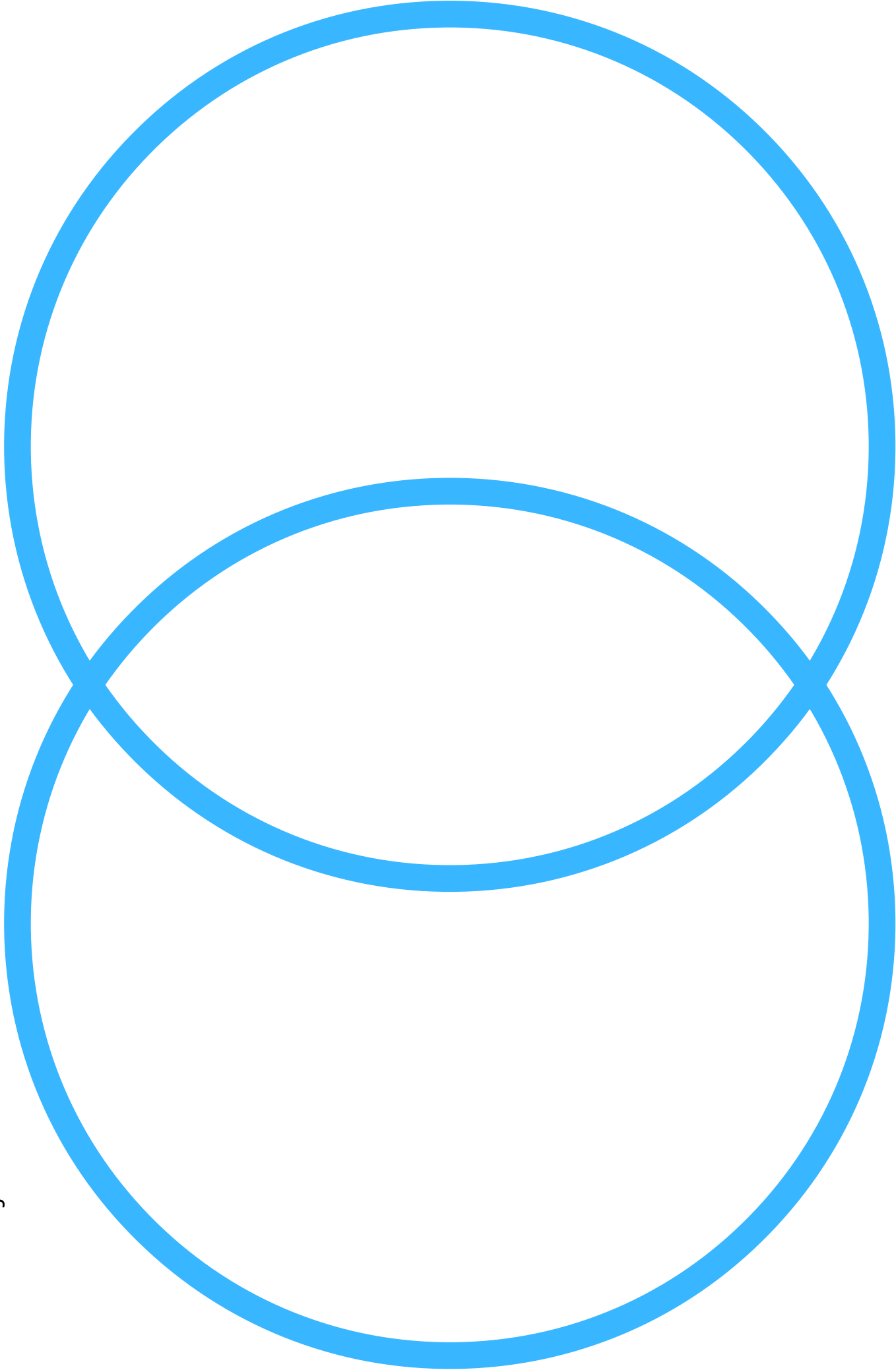
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Object 1:  Object 2: 



# Mirror Reflection Worksheet

List 10 Items that you can see your own reflection in. Use objects that are within the room.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

How is your reflection impacted in some of the reflections? Do you seem smaller? Larger? Are you upside down? Write down your observations here.

This image shows a single sheet of white paper with ten horizontal orange lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing.



