

DOUBLE MIRROR LESSON PLAN

SCIENCE

1. Gather the materials needed. Then, take the two mirrors, and place them together at an angle.

2. Walk around the room and see what you can do with it! Place it near mirrors, people, objects, corners, etc.

3. Set it down on a flat surface. Have the students placed into groups, and place items in the space between the mirrors.



4. Have the students fill out the attached worksheet.

5. Go over the answers with the students as a class.

MATERIALS

- Attached Worksheets
- Writing Utensil
- Two Standard or First Surface Mirrors Per Group
- Small objects to place between the mirrors

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.

DOUBLE MIRROR LESSON PLAN (ADVANCED ACTIVITY - TRUE MIRROR)

SCIENCE

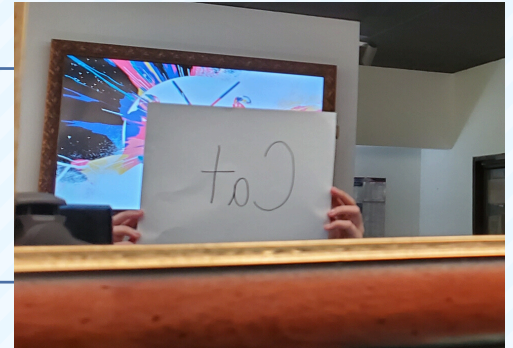
1. Place the two mirrors at a perfect 90 degree angle.

This will create a true mirror. A true mirror is a mirror that reverses a normal mirrors reversed image. It shows you an exact reflection! When you look in a true mirror, you see yourself how the world sees you!

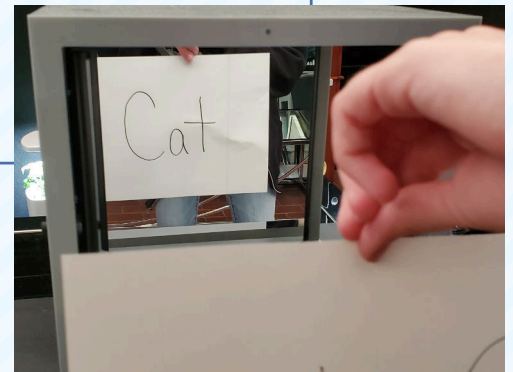


2. Have the students write down the word "Cat" on a piece of paper.

3. Have the students hold the piece of paper up to the mirror, and draw its reflection on the attached worksheet.



4. Then, have them hold the same piece of paper up to the "True Mirror" and draw the reflection on the attached worksheet.



5. Before coming together as a class to discuss their observations, have them write about the differences on the worksheet.

6. Come together as a class to discuss their observations.

WHAT DO YOU SEE WHEN YOU PUT AN OBJECT BETWEEN THE MIRRORS?

WHAT HAPPENS IF YOU CHANGE THE ANGLE OF THE MIRRORS?

HOW MANY TIMES IS THE OBJECT MULTIPLIED WHEN THE MIRRORS ARE PLACED AT A 45 DEGREE ANGLE?

DO YOU SEE MORE WHEN THE MIRROR IS PLACED AT A SMALL ANGLE, OR A LARGE ANGLE?

IF YOU PLACE THE MIRRORS AT AN ANGLE ON A PIECE OF PAPER, CAN YOU MAKE A SHAPE BY SIMPLY DRAWING ONE LINE FROM ONE SIDE OF THE MIRROR TO ANOTHER?

WHAT SHAPES CAN YOU MAKE?

NAME

DATE

TRUE MIRROR ACTIVITY

Illustrate your observations, and answer the question.

Write the word "Cat" on a piece of paper. Then, hold it up to a mirror. Draw what the reflection looks like.

Hold the same piece of paper up to the "True Mirror". Draw what the reflection looks like.

Why are the images different?