

LEARNING HOW LIGHT WORKS



Reflection

Reflection

NAME _____

TEACHER'S NAME _____

SCHOOL _____



Learning How Light Works: Reflection Discovery

Each activity will be followed by a group discussion.

Activity 1: Warm up

What is the object?	Light source(s) illuminating your object

Were there other sources of light your classmates thought of that aren't in your list?
What are they?

Activity 2: What color is a tennis ball?

White light	Red light

Activity 3: Does a tennis ball reflect light?

White light	Red light

Does a rough surface reflect light? Circle YES or NO

How did we prove this?



Activity 4: What Reflects Light?

Each group will have the same group of items to sort into shiny, dull and rough categories. As a group, decide which category each item should be in and when you have decided, complete the chart below. Some items may go in more than one category.

Do these objects reflect light? Mark the ones that reflect light with an R and the ones that do not reflect light with an NR. Test the items in each column to see if they reflect light. Be prepared to discuss your findings.

SHINY	R?	DULL	R?	ROUGH	R?



Activity 6: Reflection Rule

Incident Angle	Reflected Angle

What is our rule about reflection?

Optional Application Activity: Predictions...who can see the teddy bear?
(write yes or no in each column)

BOY	GIRL

Were you correct?

Predictions...let's move the teddy bear? who can see the teddy bear? (write yes or no in each column)

BOY	GIRL



Were you correct?

Debrief Activities

1. In learning about reflection today, what surprised you?

2. In learning about reflection today, what is one thing you learned that was new?

3. Tell me a story about light

Think again about the light source that illuminated your object. Usually we think of the object that we are look at, but the light source has a story, too. Where did it come from? Where was it made? Is it new or old? How many items did it reflect off on its way to your eyes? Write the story of your light source in the space below and you can continue on the back of this paper.

