

Name: _____

Light & Shadows

Date: _____

How Does Light Interact With Other Materials?



Explore: Looking Around With Light

Question

What common materials are transparent, translucent, or opaque?

Hypothesis

Predict whether the objects listed will be transparent, translucent, or opaque by checking the appropriate box on the **Light Transmission Test Table** located on the following page. Be sure you are checking the **Hypothesis** side of the **Table**. There are two blank spaces for you to choose two more objects around your home that you want to test.

Resources

Note to Parent: If you do not have access to one or more of these items, please substitute another object that you think may be similar.

- flashlight
- wall
- plastic wrap or Ziploc bag
- tissue paper or single layer of toilet paper
- paper bag
- cardboard
- tinfoil
- glass (window)
- sunglasses
- plastic bag
- two objects of your choice

Procedure

- 1 You will shine your flashlight on each object and observe if the light is able to pass through.
- 2 Based on what you observe, you will record whether that object is transparent, translucent, or opaque in the **Observations** side of the **Table** by checking the appropriate box.
- 3 If you substituted an object, click on the item you substituted in the **Table** and erase it. Then, type the new item in the **Table**.

Observations

[illegible]

Conclusion

What conclusions can you make based on your observations? Complete the following questions below:

- Which items were transparent?

- Which items were translucent?

- Which items were opaque?

Check your answers using the ***Check Your Answers*** on the following webpage in the course content.