

## Light Test

reflect      shadow      translucent      light      prism  
transparent      opaque      absorb      refract      lens

1. Material that allows light to pass through is \_\_\_\_\_.
2. When light waves bounce off an object, they \_\_\_\_\_.
3. A material that blocks light is \_\_\_\_\_.
4. When an object blocks light, it creates a/an \_\_\_\_\_.
5. To take in light is to \_\_\_\_\_ it.
6. An object that lets some light through but scatters it in many directions is \_\_\_\_\_.
7. To bend light is to \_\_\_\_\_ it.
8. A form of energy that you can see is called \_\_\_\_\_.
9. A thin piece of glass that refracts light is a/an \_\_\_\_\_.
10. Something that separates white light into colors is a/an \_\_\_\_\_.

### Multiple Choice

1. Which is true about a white object?
  - a. It reflects all colors
  - b. It absorbs all colors
  - c. It looks white in any color light
2. Which type of surface reflects light MOST clearly?
  - a. dark and grooved
  - b. angled and clear
  - c. smooth and shiny
3. Sarah's coat reflects red light. It absorbs all other colors of light. What color is Sarah's coat?
  - a. white
  - b. red
  - c. black

4. Which describes why a orange is orange?
  - a. It absorbs orange light
  - b. It reflects orange light
  - c. It reflects all light except orange
  
5. Reflection occurs when light waves
  - a. separate into colors
  - b. are absorbed by a surface
  - c. bounce off of a surface
  
6. What causes a shadow?
  - a. The object blocks some of the sunlight that hits it
  - b. The object reflects the light
  - c. The object refracts the light
  
7. Why does a tree cast a shadow, but a glass door does not?
  - a. The tree blocks the light waves
  - b. The glass door blocks the light waves
  - c. The tree is bigger

Name 2 examples of each:

- |                 |       |       |
|-----------------|-------|-------|
| 8. Opaque       | _____ | _____ |
| 9. Translucent  | _____ | _____ |
| 10. Transparent | _____ | _____ |

11. Why do we see black objects?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

12. What are 2 objects that separate white light into colors?

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