

## Light Study Guide

Know the following terms and be able to use them in a sentence.

**Light**- a form of \_\_\_\_\_ you can \_\_\_\_\_.

**Energy**- the ability to cause \_\_\_\_\_ to \_\_\_\_\_ or move

**Opaque**- \_\_\_\_\_ allowing light to pass \_\_\_\_\_

**Shadow**- an area where light does \_\_\_\_\_ strike the \_\_\_\_\_

**Translucent**- allows only \_\_\_\_\_ light to pass through

**Transparent**- lets \_\_\_\_\_ through

**Reflect**- to \_\_\_\_\_ off

**Refract**- to \_\_\_\_\_ from a straight path, as a light ray through a \_\_\_\_\_

**Absorb**- to take \_\_\_\_\_

**Prism**- a transparent object that \_\_\_\_\_ white light into all the colors of the \_\_\_\_\_

**Lens**- an object or material that \_\_\_\_\_ light

1. How are you able to see the objects around you? \_\_\_\_\_  
\_\_\_\_\_
2. Name 2 opaque objects. \_\_\_\_\_
3. Name 2 transparent objects. \_\_\_\_\_
4. Name 2 objects that reflect light. \_\_\_\_\_
5. Name 2 objects that refract light. \_\_\_\_\_
6. Where should you hold your pencil to produce a clear, sharp shadow on a wall?
7. What two (2) surfaces create a reflection? \_\_\_\_\_
8. What happens to sunlight after it strikes a green, Buford sweatshirt? \_\_\_\_\_  
\_\_\_\_\_
9. What colors do white objects reflect when light strikes them? \_\_\_\_\_
10. How are prisms and raindrops alike? \_\_\_\_\_  
\_\_\_\_\_
11. How do the lenses in eyeglasses help correct a person's vision? \_\_\_\_\_  
\_\_\_\_\_
12. How are glasses and a glass of water alike? \_\_\_\_\_  
\_\_\_\_\_

## Light Study Guide KEY

Quizizz link: <https://quizizz.com/admin/quiz/5b33ab90d87c7700193182fb>

Quizlet link: <https://quizlet.com/303578849/4th-grade-light-2018-flash-cards/>

**Light**- a form of energy you can see

**Energy**- the ability to cause matter to change or move

**Opaque**- not allowing light to pass through

**Shadow**- an area where light does not strike the ground

**Translucent**-allows only some light to pass through

**Transparent**- lets light through

**Reflect**- to bounce off

**Refract**- to bend from a straight path, as a light ray through a lens

**Absorb**- to take in

**Prism**- a transparent object that separates white light into all the colors of the rainbow

**Lens**- an object or material that refracts light

1. How do you see objects in the world around you? **Some of the light reflects off the objects and into your eye**
2. Name two objects that are opaque (no light) **Anything solid, a pencil, wall, person, football, etc**
3. Name 2 objects that are transparent. (only some light) **Window, glass, glasses, hand sanitizer bottle, etc.**
4. Name 2 objects that reflect light. **mirrors, flat aluminum foil, a metal spoon, a surface of still water like a pond or a puddle after it rains**
5. Name 2 objects that refract light. **curved lenses, water droplets**
6. Where should you hold your pencil to produce a clear, sharp shadow on a wall? **If you hold the object close to the shadow (close to the wall), you will have a clear, sharp shadow**
7. What two (2) surfaces create a reflection? **shiny surfaces like a mirror or metal, still water, glass etc**
8. What happens to sunlight after it strikes a green, Buford sweatshirt? **The green is reflected back to your eye. The other colors are absorbed.**
9. What colors do white objects reflect when light strikes them? **White objects reflect all color when light strikes them**
10. How are prisms and raindrops alike? **Prisms and raindrops both refract the light as it passes through them. A prism is an object that separates white light into colors of the rainbow by refraction**
11. How do the lenses in eyeglasses help correct a person's vision? **The curved lenses in glasses bend light into a persons eye.**
12. How are glasses and a glass of water alike? **They both bend or refract light**