***Chapter 6 Lesson 4***

***Light***

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***Terms:***

***Covex Lens***: a lens that bulges outward

***Opaque:*** a material which light can’t pass through

***Prism:*** a tool used to separate white light into all of its colors

***Reflection:*** the property of light in which light rays strike a mirror and bounce off **(It involves 2 light rays)**

***Refraction:*** the bending of light rays as they pass through different materials

***Translucent:*** a material through which light can pass but will be scattered in different directions

***Transparent:*** a material through which light **can** pass

***Concave Lens:*** a lens that bulges inward

***Mirror:*** smooth, shiny surface that can reflect most light

***Light***: can **pass through** or **be blocked** by some materials

***Notes:***

***What is Light?***

1. light is a form or energy that travels in a straight path.
2. Light can be absorbed
3. Light can be reflected in a different direction

***What is Refraction?***

1. light rays can bend as they pass from one material to another
2. light travels slowly through dense materials
3. lens are used to refract, or bend light
4. Concave mirrors make things look smaller
5. Convex mirrors make things look larger
   1. Eyes
      1. Images focused on the retina turns things upside down
      2. Optic nerves send information to the brain

***What happens when light hits different objects?***

1. opaque: light is blocked
2. dark spaces that block light is called a shadow
3. light can pass through things that are translucent

***What can you see colors?***

1. light from the sun is a mixture of colors
2. a prism separates light and colors that make it up
3. when all light is absorbed- the object looks black
4. when all light is reflected- the object looks white