

Review 2 for Final Test

1. Choose a suitable word for each sentence:

- Without constant light energy from the sun, Earth would be a (dead / green) planet.
- Some animals give off light called **bioluminescence**. This light is a result of (chemical / physical) reactions inside the animal's body.



2. **Visible spectrum** is the light energy that we can see.

Order the colors of the visible spectrum:

Red Blue Yellow Green Violet Orange

1 – Red 2 - _____ 3- _____ 4- _____ 5- _____ 6- _____

3. Fill in the gaps:

violet prism waves white

- A lamp or the sun give off white light. The _____ light is a blend of other colors.
- Light travels in form of _____. _____ color has the highest frequency and the shortest wavelength.
- A piece of glass called a _____ separates white light into its different wavelengths. It lets you see the colors.

4.



- Prism: _____
- Lake: _____
- Pencil: _____

Refraction

Reflection

Absorption

5. Match the definitions:

Reflection

happens when light changes its speed and bends.

Refraction

occurs when an object takes in a light wave.

Absorption

occurs when light rays bounce off from a surface.

6. Convection Radiation Friction Conduction



7. Match:

- | | |
|--|------------|
| 1) The transfer of thermal energy between matter of different temperatures is | Friction |
| 2) When two surfaces rub together is | Convection |
| 3) The transfer of heat when one thing touches another is | Heat |
| 4) The transfer of thermal energy as a gas or a liquid moves from place to place | Conduction |
| 5) Energy that is sent out in waves | Radiation |

8. Order the steps of the conduction process:

- Soon, thermal energy from the oatmeal moves throughout the spoon.
- The particles of the spoon that touch the oatmeal start to move.
- The heat transfer continues until the oatmeal and the spoon are at the same temperature.
- As they move, they crash into other particles of the spoon.

