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**KEY**

Light Energy Pre – Post Poll

Choose the most correct answer.

\_C\_\_ 1. You would like a window in your bathroom that would let in light but allows you to have

 your privacy. Which type of material would you use?

1. Opaque
2. Transparent
3. Translucent
4. Conductive

\_B\_\_\_ 2. If all the colors are mixed together, what color do they make?

1. Black
2. White
3. Gray
4. Brown

\_\_A\_\_ 3. Which of the following travels the fastest?

1. White light
2. A loud sound
3. An explosion
4. Sound in a solid

\_\_C\_\_ 4. A beam of light enters hits a mirror at a 30° angle. At what angle does it leave the mirror?

1. 45°
2. 60°
3. 30°
4. 90°

\_\_D\_\_ 5. When light from the sun hits a tree, it cannot pass through it. What happens?

1. The light is refracted.
2. The light is reflected.
3. The tree creates a shadow.
4. Both B and C.

\_\_C\_\_ 6. A lens that can make objects bigger is called a….

1. Concave lens.
2. Prism.
3. Convex lens.
4. Image.

\_\_G\_\_ 7. When light bounces off a substance, what happens?

1. Light is refracted.
2. Light is absorbed.
3. Light is reflected.
4. The object disappears.

\_\_B\_\_ 8. What do light waves do as they pass from one transparent material to another?

1. Bend.
2. Disappear.
3. Reflect.
4. Bounce off.

Short answer. (2 point question.)

9. Explain how a drop of water can act as a magnifying lens.

As light enters a drop of water the light rays bend because the curve of the drop acts like a convex

lens and the rays are refracted. The light slows down and forms a new path. The light spreads out

and the image looks bigger.