KSS #1 - Science Assessment

Name: _____ **Date:** _____

1. Which of the following explains why an apple looks red?

   A. The apple is reflecting red light and absorbing all other colors of light.

   B. The apple is absorbing red light and reflecting all other colors of light.

   C. The apple is absorbing all colors of light, but it absorbs the red light better.

   D. The apple is reflecting all the light.

2. A sound wave is produced in a metal cylinder by striking one end. Which of the following occurs as the wave travels along the cylinder?

   A. Its amplitude increases. B. Its frequency increases.

   C. It transfers matter. D. It transfers energy.

3. Which of the following choices best explains why grass on a distant hillside appears green?

   A. Grass reflects all colors except green.

   B. Grass absorbs only green light from the sun.

   C. Grass reflects green light more than any other color.

   D. Grass transmits green light in the same way that green-colored cellophane does.

4. A radio station transmits to a receiving antenna. The radio wave sent is a

   A. sound wave. B. torsional wave.

   C. longitudinal wave. D. transverse wave.

5. Astronauts on the Moon would *not* be able to hear a landslide because

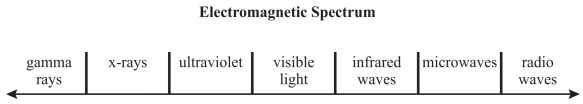
   A. the lunar dust deadens sounds.

   B. intensive sunlight destroys sound waves.

   C. the magnetic field of the Moon is too weak to carry sound.

   D. air molecules on the Moon are too far apart to carry sound.

6. A diagram of the electromagnetic spectrum is shown below.



   Sunscreen is a lotion used to protect skin from exposure to the Sun. This sunscreen protects a person's skin from wavelengths that are

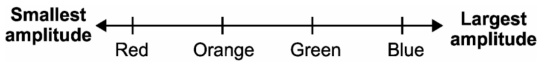
   A. longer than radio waves but shorter than x-rays.

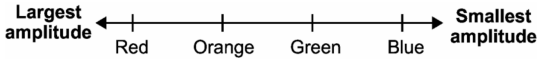
   B. longer than x-rays but shorter than infrared waves.

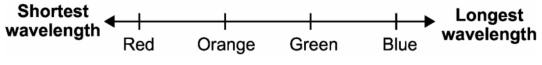
   C. longer than microwaves but shorter than infrared waves.

   D. longer than visible light waves but shorter than radio waves.

7. Which diagram correctly orders different colors of light according to the value of a property?

   A. 

   B. 

   C. 

   D.