1. All waves transfer ___________________________ from one place to another.

2. Which wave property measures how many waves pass a point in one second? _______________________

3. Which property of electromagnetic waves must go down as the frequency goes up?

__________________________________________________________________________________________

4. Put these four parts of the electromagnetic spectrum in order from shortest to longest wavelength:
gamma, infrared, microwave, ultraviolet.

a. ___________________________ b. ___________________________

c. ___________________________ d. ___________________________

5. Any object above absolute zero gives off ___________________________ radiation, which can be detected by a thermal imaging camera.

6. Each of the different colors that make up white light has a different ___________________________.

7. A “black light” uses ___________________________ radiation to make some objects glow.

8. ___________________________ waves are used to send signals because they can travel over very long distances and pass through buildings.

9. Why are X-rays used to produce images of broken bones?

__________________________________________________________________________________________

10. How does a prism separate white light into the different colors that compose it?

__________________________________________________________________________________________