

Science Quiz: Electromagnetic Spectrum

Names:

Grade and Section:

Date:

1. Which of the following is correct in order of lowest to highest energy?

- [A] X-rays, Visible Light, Microwave
- [B] Ultraviolet, Visible Light, Gamma-rays
- [C] Microwave, Visible Light, Gamma-rays

2. The photons that make up radio waves travel at the same speed as the photons that make up visible light.

- [A] True
- [B] False

3. The electromagnetic spectrum can be expressed in terms of energy, wavelength, or frequency.

- [A] True
- [B] False

4. Low energy photons are waves. High energy photons are particles.

- [A] True
- [B] False

5. The longer its wavelength, the more energy light carries.

- [A] True
- [B] False

6. Which characteristic is the same for all photons?

- [A] Speed of the photons
- [B] Energy stored in photons
- [C] Wavelength of the photons
- [D] All of the above

7. What is NOT part of the electromagnetic spectrum?

- [A] Visible light
- [C] Magnetic field
- [B] Gamma rays
- [D] X-rays

8. What type of waves are used to transmit cellular telephone messages?

- [A] Gamma rays
- [C] Microwaves
- [B] Radio waves
- [D] Visible light

9. How much of the electromagnetic spectrum is visible?

- [A] All of it
- [C] Most of it.
- [B] None of it
- [D] Only a small part.

10. Suppose a source of electromagnetic waves is moving away from us at 2% of the speed of light. What can be said of the wavelength of the waves we receive from the source?

- [A] they are blueshifted by 2% [C] they are blueshifted by 4%
- [B] they are redshifted by 2% [D] they are redshifted by 4%

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