

## ELECTROMAGNETIC WAVES

# Directed Reading for Content Mastery

## What are electromagnetic waves?

**Directions:** Draw a line between each term on the left to the most appropriate phrase on the right.

- |                              |                                 |
|------------------------------|---------------------------------|
| 1. magnetic field            | electromagnetic wave            |
| 2. vibrating electric charge | number of vibrations per second |
| 3. frequency                 | dependent on material           |
| 4. photon                    | moving electric charge          |
| 5. wave speed                | carries energy                  |

**Directions:** Circle the term that correctly completes the sentence.

- Electromagnetic waves are made by vibrating electrical charges that can travel through (photons, matter).
- Particles with the (same, opposite) electric charge repel each other, while particles with the (same, opposite) charge attract each other.
- As the frequency of a wave (increases, decreases), the wavelength becomes smaller.
- The (speed, intensity) of the wave depends upon the material the wave travels through.
- The energy carried by an electromagnetic wave is from vibrating (electrical charges, magnets).
- One Hz is one vibration each (second, minute).
- Light can behave as a particle, called a (neutron, photon) whose energy depends on the frequency.
- All electromagnetic waves travel at 300,000 km/s through a (vacuum, diamond).

# Electromagnetic Waves Directed Reading For Content Mastery Worksheet

**K Morrison**



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