**The Nature of Electromagnetic Waves**

1. **What are electromagnetic waves?**
2. **Is the following sentence true or false?**

***Electromagnetic waves can transfer energy only through a medium.***

1. **What type of energy do electromagnetic waves transfer?**
2. **An electromagnetic wave is a \_\_\_\_\_\_\_ wave.**

**( transverse, longitudinal, seismic)**

1. **The energy that is transferred through space by electromagnetic waves is called \_\_\_\_\_\_\_\_\_\_\_\_\_.**
2. **True or false:**

**All electromagnetic waves travel at the same speed in a vacuum**