Wave Technology 2019 – Objective 3: using waves to transmit information and energy Name:

Electromagnetic waves are produced through the oscillation of a charged particle. We use many of these waves throughout our day, sometimes without even realizing it. For each of the technologies listed, find the **range of wavelength** used and one interesting fact.

**XM radio**

Range—

Interesting fact—

**Cell phone reception**

Range—

Interesting fact—

**TV remote**

Range—

Interesting fact—

**Keyless entry for vehicles**

Range—

Interesting fact—

**Garage door opener**

Range—

Interesting fact—

**NFC (Near Frequency Communication)**

Range—

Interesting fact—

**Infrared heater**

Range—

Interesting fact—

**Remote engine starter**

Range—

Interesting fact—

**Wifi**

Range—

Interesting fact—

**Bluetooth**

Range—

Interesting fact—

**Airdrop**

Range—

Interesting fact—

**4GLTE**

Range—

Interesting fact—

**Airplay**

Range—

Interesting fact—

**FM radio**

Range—

Interesting fact—

**AM radio**

Range—

Interesting fact—



Directions: Label the different types of technology on the EM spectrum above. What do you notice?