



#### **1. Radio Waves**

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. Radio waves can be found/are used for...

#### 2. Microwaves

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. Microwaves can be found/are used for...

### 3. Infrared Light

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. Infrared light can be found/is used for...

## 4. Visible Light

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. Visible light can be found/is used for...

### 5. Ultraviolet Light

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. Ultraviolet light can be found/is used for...

# 6. X-Rays

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. X-rays can be found/are used for...

# 7. Gamma Rays

- a. Frequency range (record without and with the use of scientific notation):
- b. Wavelength range (in free space). Record the values and name something in the same size range. i. Longest:

ii. Shortest:

c. Gamma rays can be found/are used for...

8. What do all electromagnetic waves have in common?