Electromagnetic Spectrum p. 298 – 299

* There are many other types of radiant energy, including visible light.
* These are organized into a spectrum that **sorts them by energy level**.
* The **higher the energy level**, the **more frequent** the waves and the **longer the length** of the waves.
* Generally, radiation with **more energy is more dangerous** for humans.

Questions:

1. Sort the following examples into the type of radiation that they use:

Xrays

Remote control (TV)

Microwave

Sterilize

Lasers

Cell phone

Created the Hulk

Radio

Sunburns

Rainbows

Body heat sensor

“Black” lights

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Radio | Micro | Infrared | Visible | Ultraviolet | Xrays | Gamma |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

See if you can add any examples of your own.

1. Place these examples in order from **highest to lowest energy**:

Blue light, x rays, gamma rays, orange light, microwaves, infrared radiation.