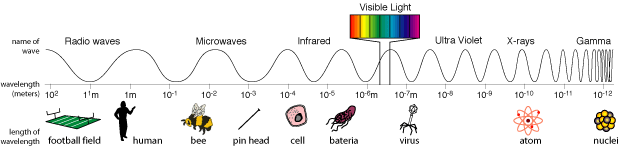
**The Electromagnetic Spectrum**

The electromagnetic spectrum is made up of 7 different regions as shown below.

<http://science.hq.nasa.gov/kids/imagers/ems/>

**Directions:** Cut apart the pictures on the Uses of the Electromagnetic Spectrum worksheet. Conduct research using http://missionscience.nasa.gov/ems/ to determine which region of the electromagnetic spectrum is associated with each image. Glue the correct picture in the correct space.

|  |  |  |  |
| --- | --- | --- | --- |
| Region of the Electromagnetic spectrum | How we use this type of radiation on Earth | How astronomers use this type of radiation to understand the Universe | 1 interesting fact about this type of radiation |
| Radio waves |  |  |  |
| Microwaves |  |  |  |
| Infrared |  |  |  |
| Region of the Electromagnetic spectrum | How we use this type of radiation on Earth | How astronomers use this type of radiation to understand the Universe | 1 interesting fact about this type of radiation |
| Visible light |  |  |  |
| Ultra violet |  |  |  |
| X-rays |  |  |  |
| Gamma |  |  |  |

What are two things you learned today?

**Uses of the Electromagnetic spectrum**

|  |  |  |  |
| --- | --- | --- | --- |
| Image result for television clip art  This type of radiation carries television and radio signals on Earth. | This type of long- wavelength radiation is used by NASA to communicate. | Image result for telescope clipart  Backyard astronomers use this type of radiation to study the stars. | Image result for remote control clip artThe remote control for your television uses this type of radiation |
| This type of radiation is used to study the heat from solar flares on the sun. | Image result for light bulb clip artWe see this type of radiation. | The Chandra Space telescope uses x-ray radiation to study distant objects within our galaxy. | Image result for tanning bed clip artTanning beds use this type of radiation to help you get a tan. |
| Image result for radiation therapy  This type of radiation can be used to treat cancer. (it also can cause cancer) | Hurricane Claudette's eye-wall making landfallThis type of radiation is used by satellites in space to help forecast the weather. | The James Webb space telescope will use this type of radiation to study deep space. | NASAs Fermi space telescope uses gamma rays to study objects both inside and outside of our galaxy. |
| Image result for cell phone clip artCell phones and your microwave oven both use this type of radiation. | We use this type of radiation to monitor bone and tooth health |  | |

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