

**Electromagnetic Radiation Worksheet**    Period \_\_\_\_    Name \_\_\_\_\_

Check out the following website pertaining to the em spectrum:

<http://school.discoveryeducation.com/lessonplans/interact/electromagneticspectrum.html>

According to the information on the first slide, what three forms of em radiation does our body detect on a daily basis?

Which one of the above forms of em radiation does our body detect as heat?

According to the next slide, where on the em spectrum do we find high energy em radiation?

lo f / hi  $\lambda$  end                      OR                      hi f / lo  $\lambda$  end

Advance to the next slide and mouse over the spectrum so as to reveal the radio wave information. What government agency regulates radio wave "traffic"?

Move on down to microwaves and mouse over the spectrum so as to reveal the microwave information.

Besides a microwave oven, in what manner do you also use microwaves on a regular basis?

What is meant by the comment that the microwave portion of the em spectrum is "quiet"?

Move on down to IR waves and mouse over the spectrum so as to reveal the infrared wave information.

What can snakes use to detect IR radiation?

Move on down to the visible region and mouse over the spectrum so as to reveal the visible wave information.

What does the G stand for in VIBGYOR?

Which color light has a lower frequency, red or blue?

Move on down to the UV region and mouse over the spectrum so as to reveal the UV information.

What insect is believed to be able to "see" UV radiation?

In what manner is overexposure to UV radiation harmful?

Move on down to the X-ray region and mouse over the spectrum so as to reveal the UV information.

Why is the apron they drape over you when you get an x-ray at the dentist's office so heavy?