Section 4.3

Use with textbook pages 152-160.

The electromagnetic spectrum

Write a use for each electromagnetic radiation stated below. In the box provided, draw a picture to illustrate your example.

draw a picture to illustrate your example.	
	2. Microwaves
1. Radio waves	
	5 [*] 4
Use:	Úse:
Ose.	4. Ultraviolet rays
3. Infrared waves	4. Olifaviolot faye
Use:	Use:
	6. Gamma rays
5. X rays	
Hee:	Use:

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True or false?

Read the statements given below. If the statement is true, write "T" on the line in front of the statement. If it is false, write "F" and rewrite the statement to make it true.

rue. 1	_ Radiant energy spreads out from its source in all directions.
2	Electromagnetic radiation includes only visible light waves.
3	Microwaves are a type of infrared wave.
4	X rays have more energy than gamma rays.
 5	Radio waves, microwaves, and ultraviolet waves all have longer wavelengths than visible light.
6	Both X rays and gamma rays have higher frequencies than ultraviolet rays.
7	Communicating with satellites is an application of gamma rays.
8.	The Sun radiates both visible energy and invisible energy.
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More than meets the eye

Vocabulary	thank onorgy
electromagnetic radiation	radiant energy
electromagnetic spectrum	radio waves
	ultraviolet rays
frequency	visible light
gamma rays	wavelength
infrared waves	X rays
microwaves	by box to fill in the blanks. Use each term only once.
Use the terms in the vocabular	represents the different forms of
	represents the different forms
1. The	
electromagnetic radiation.	
	because electrical
a Light is classified as	n a light wave.
Light is classified as and magnetic fields vibrate in	n a light wave.
and magnetic fields viscos	ut. A.v.
	is energy that travels by radiation. An
3	
example of this is light.	
example of the	cannot
Landwin	as, cannot an be felt by your skin.
4. Heat radiation, also known a	an he felt by your skin.
4. Heat radiation, also known a be seen by your eyes but ca	an be lest by your and
are one type of	of
5. Microwaves are one type of	
	can be used to communicate with
6	Can bo doos
satellites.	
	of a second of a
	have the highest energy of a
7. Because	they are the most damaging to human tissue.
electromagnetic radiation,	they are the most dames of
<u></u>	alia wayos have the
	es of electromagnetic radiation, radio waves have the
8. Compared to all other type	00 0. 0
lowest	•
to describe	can result in
a a suprovinceure to	can result in
9. An overexposure to	r.
sunburns and skin cance	