Nar	me	Class	Date
D	Directed Reading B continued		
19.	. What happens to light rays wh	en they travel throu	igh a concave lens?
20.	. What type of image can a cond	cave lens form?	
OP	TICAL INSTRUMENTS AND RE	FRACTION	
	tch the correct description with wided.	the correct term. W	rite the letter in the space
	21. opens and closes to collight that enters the car		a. film b. lens
	22. focuses light on the film	n	c. shutter
	23. stores an image		
24.	. What does a digital camera us	e to record images?	
25.	. What do the eyepiece lens and	the objective lens i	n a refracting telescope do?
26.	Name one way that a light mic	roscope is similar t	o a refracting telescope.
27.	Name one way that a light mic	roscope differs from	m a refracting telescope.

Name	Class	Date	
Skills Workshoot			

Vocabulary and Section Summary B

The Electromagnetic Spectrum **VOCABULARY**

After you finish reading the section, try this puzzle! Then, put the letters in the matching numbered squares on the next page to reveal a quote by Thomas Edison.

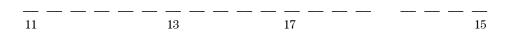
1. a type of electro	omagnetic wave th	at is used to kill bacteria	on food
	13		
2. a very narrow r	ange of wavelengt	hs in the electromagnetic	spectrum that
humans can see			
3. a type of electron	omagnetic wave th	at warms Earth	
4. the distance fro	om any point on a	vave to an identical point	on the next wave
— — ₁₆ — –	22 8		
5. the range of col	lors		
<u> </u>			
6. the entire range	e of electromagnet	c waves, such as light, ra	dio waves,
microwaves, an	d X rays		
	10 28		

7. the visible light of all wavelengths combined

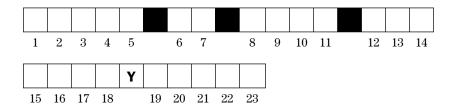
Name

Vocabulary and Section Summary B continued

8. a wave that consists of changing electric and magnetic fields that vibrate at right angles to each other



What Thomas Edison said:



SECTION SUMMARY

Read the following section summary.

- Light is an electromagnetic wave (EM wave). An EM wave can travel through matter or space.
- The entire range of EM waves is called the *electromagnetic spectrum*.
- Infrared waves from the sun warm Earth and everything on Earth.
- Visible light is the narrow range of wavelengths in the electromagnetic spectrum that humans can see.
- Humans see different wavelengths of visible light as different colors.
- Ultraviolet light is both harmful and helpful to living things.