

Name: _____

Electromagnetic Spectrum

1	Explain why telescopes are so important in the study of astronomy.	
2	What is energy? What types of energy are most important to the study of astronomy?	
3	Create a diagram showing waves of energy. Include labels for the crest, trough, and wavelength.	
4	Explain what the concept of frequency means.	
5	What is the difference between the different types of energy on the spectrum?	
6	Explain why leaves look green to humans.	
7	Which type of energy on the spectrum is most harmful to humans?	

8	Which type of energy on the spectrum is felt by humans as heat?	
9	Which type of energy on the spectrum can be detected by human eyes?	
10	Which color of the visible light spectrum has the shortest wavelength?	
11	Which color of the visible light spectrum has the longest wavelength?	
12	Which types of energy does the sun primarily emit?	
13	Describe what the black lines on the visible spectrum of the sun represent.	
14	Describe what kinds of information we can learn by examining the spectrum of a star or galaxy.	