

Close Reading

Topic:_____

Name:_____

Source:_____

Date:_____ **Period:**_____

A. New Words: what do you think it means what it means		
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

B. Draw the Electromagnetic spectrum and label the 7 parts.

C. Facts and / or MAIN IDEA

PARAGRAPH	FACT or MAIN IDEA (note format)
Electromagnetic waves	
Visible Light	
Infrared Waves	
Ultraviolet Waves	
Radio Waves	
Xrays and Gamma Rays	
Wave Generation	
Quantum Theory	
Uses of EM Radiation	

D. Collaboration: answer the following questions:

1) Who, when, and how was a “spectrum of colors” discovered?

2) What type of radiation is used to calculate the temperature of stars?

3) How are IR and UV rays different? (describe two different ways)

4) Finish the statements

i. The longer the wavelength, the _____

ii. The higher the voltage (Xray), the _____

5) What is “electron jump”? _____

6) (Wave Mechanics) “All forms of matter and _____

7) Simplify the complex concept of wave mechanics. (wavelike or streamlike)

“In transit”, _____

“from electrons” _____

8) List at least 10 uses of EM Radiation:
