Sci 8 **Electromagnetic Spectrum Reading** Name: \_\_\_\_\_\_\_\_\_\_\_\_

Read pages **188 -197 BC Connections** 8 to answer the following questions

1. What type or types of electromagnetic radiation are given off by the following sources?
2. A halogen light bulb
3. The Sun
4. Iodine-131
5. You
6. Identify 2 natural sources of electromagnetic radiation and 2 artificial sources of electromagnetic radiation. List new sources other than the ones listed above.
7. Describe 2 ways electromagnetic radiation can cause harm to living things.
8. Name at least 5 jobs or careers that involve electromagnetic radiation.
9. Your eyes can sense light, and your skin can sense infrared. Describe a way that technology allows you to sense another type of electromagnetic radiation.
10. A criminal investigator testifies in course that races of blood were found at the scene of a crime, even after the suspect tried to clean it up. Describe a technique the investigator could have used to find the evidence. You can answer in point form.
11. The Vancouver Art Gallery has been donated a previously unknow painting by BC Artist Emily Carry. The donor claimed that the painting was made in 1929. As the curator, you are concerned that it may be a forgery. How could electromagnetic radiation be used to find out if it is a fake? You can answer in point form.
12. EVALUATE: Electromagnetic radiation has a huge impact on our ability to communicate and share knowledge, ideas, and feelings. Write a short paragraph discussing what responsibilities we should consider when sharing information digitally? (think digital citizenship). What are some consequences if we share information indiscriminately? Attach another piece of paper if you need more space. Please use complete sentences and complete ideas.
13. Describe how you are an electromagnetic radiation detector.
14. Identify **three** sources of electromagnetic radiation **you interacted** with this week.
15. Describe 2 ways electromagnetic radiation can carry out a task.
16. A weather forecast indicates the extremely heavy rainfall is approaching Port Alberni. The storm is expected to arrive within 24 hours. Describe the role electromagnetic radiation might have plated in forecasting these weather conditions.