Pg. 107 Chapter 4 Worksheet 2:

Name: Date:

1. A .What are 2 names for Eulachons by First Nations People? (answer is on pg.91)

   B. using properties of your observed senses...is Eulachon grease…

   I. Solid or liquid?

   II. What colour is it?

   C. What did First Nations People use them for?(4 things)

2. A. What specifically is Plasma?(pg. 98)

   B. What is an example of Plasma in nature? There are two names for this(2 marks)

   C. In ancient times, what did First Nations people believe regarding the Northern Lights? Explain. (1 mark)

   D.Plasma is used today for a variety of things, name 4 things.(4 marks)

   E. What process do Plasma cutters speed up?(2 marks)

F. Provide 3 examples of where Plasma cutters are used?(3 marks)

G. How do Plasma TVs work, you may still have one in your house.(2 marks)

3. When you are comparing the masses of the same volume of different substances, you are Comparing the _____.(pg. 107)

4. What is the definition of Density?(1 mark)

5. Why does oil float on water? Be specific(1 mark)

6. How do you calculate the density of a substance?

7. If I was to attempt to add western red cedar wood, crude oil, pure water and pieces of copper to a large glass container, how would this appear to you? Please explain in detail.(2 marks)

8. a.What is room temperature?(not in the book, you should know this.)(1 mark)

b. What is the only metal that is liquid at room temperature that we know of?
(the answer may be on???...pg. 112?) (1 mark)

c. What is important to know regarding safety of this metal element?(What should you never do around this element)(2 marks)

9. Look at the density table of many metals on page 112...correctly organize in order which metals would float in Mercury and if they were magically all in liquid phase, how would they all be organized in respect to each other...in other words, what would float on what? Put them into correct order please from least dense to most dense.(organize all 10 metals from the table).
(Order of Densities of different metals from least to greatest)

Metal	Density

Critical Thinking Questions.(Answers are not directly in the book always, you may have to discuss with a partner and figure this out).

10. A student stated that solids are always denser than liquids. Several students disagree with this statement, yet others agree. Which position would you take? Provide examples to support your position?(5 marks)

11. You are to create a thermometer that would work best in the South Pole of Antarctica...which of the following two substances would you use and why?(Explain logically with detail)(3 marks)

Substance	Melting Point(Celsius)	Boiling Point(Celsius)
Mercury	-38.9	356.6
Ethanol	-114.3	78.5