

Science Study Sheet
Chapter 10 – Properties and Structure of Matter
Monday June 5, 2017
Assessment Date will be announced

This is your Science Study sheet for Chapter 10. If you spend a little time each evening studying, then by the time we are ready for this assessment, you will be prepared. Create index cards, highlight your study notes and spend time with the material. Below is an outline of what will be assessed.

Section 1 – Vocabulary: Each question will be worth 2 points each. This will be a true or false column. Study the following words and phrases.

Boiling point

Mass

Volume

Freezing point

Density

Electron

Neutron

Protons

Insulate

Buoyancy

Nucleus

Be able to identify the three states of matter.

Science Concepts:

This section is a multiple choice section and each question is worth 4 points.

- Matter that is liquid tends to be denser than matter that is gaseous.
- Metals conduct heat and electricity well.
- You can use a compass to find which direction is north because Earth is like a big magnet.
- If you took an object to the moon, the object would weigh less.
- Milliliters are the unit of measure for volume.

Section 3 – Science Process Skills: These are short response questions and are worth 6 points each. Study these topics.

Make a Model

Explain how sailors of a submarine vessel would pump water into ballast tanks so that the submarine's density is close to the density of the surrounding water. How could you model this process? - **SEE YOUR NOTES!!!!!!**

Interpret Data:

Understand what the chemical formula for carbon dioxide is. What chemical compound makes up table sugar? $C_{12}H_{22}O_{11}$

Water – H_2O

Carbon monoxide – CO

Table Salt- $NaCl$

Table Sugar - $C_{12}H_{22}O_{11}$

The density of corn oil is 0.92 g/cm^3 . The density of ice is 0.9 g/cm^3 . What will happen if you drop an ice cube into a class of corn oil? Explain.

Section 4 Using Science Concepts: Each open response question is worth 8 points. All of this information should be in your notes as we explore each topic.

Name three properties that you can use to classify matter?

Describe the structure of an atom.

How can a thermos keep hot liquids hot and cold liquids cold?

You want to find the volume of a rock. Describe two ways to do this.

As we explore this unit; all of these topics will be discussed and notes will be offered. During class, I will give detailed notes for each topic listed on this study sheet. It's your **responsibility** to spend time with the information and study! You can't assume that you could look at this material once and remember all of it.

- Make index cards with important information
- Study the vocabulary – memorize it!
- Spend time each evening preparing for the assessment
- Write down questions you might have.
- Study!