

Name: _____ Units: _____

Matter & Chemistry Unit Test



Study Guide

1.) Know the changes of state definitions (matching):

Melting: Change from a solid to liquid by the application of heat.

Condensation: Changing of a gas or vapor to a liquid.

Freezing: Harden by cold; turn into a solid by removal of heat. When liquid freezes.

Evaporation: Changing of a liquid into vapor (removal of water).

Deposition: Passing from a vapor (gas) to a solid without going through a liquid state.

Sublimation: Passing from a solid to a vapor (gas) without going through a liquid state.

Boiling: Liquid bubbles up/gives off steam or vapor when heated. (liquid to gas)

2.) Know the basic definition of matter:

3.) Know what the atomic number and atomic mass are of an element

4.) Study the physical and chemical changes chart and be able to fill in the missing pieces
You can find this chart on the last page of this study guide.

5.) Know how to find protons, neutrons, and electrons in an element as well as what their charges are (Protons = positive, Neutrons = Neutral (no charge), and electron = negative)

6.) Know the definitions of solids, liquids, and gases – in foldable. Know examples of each. Be able to draw the molecules of each state.

7.) Know that an **element** is the simplest form of matter that cannot be changed chemically or physically into something else.

8.) Know that the Periodic Table of Elements is a chart we use to find information out about the elements. It is arranged by increasing atomic number.

9.) Know that the atomic number tells you how many protons and electrons are in an atom.

10.) Know that the number of neutrons is the atomic mass (rounded) minus the atomic number.

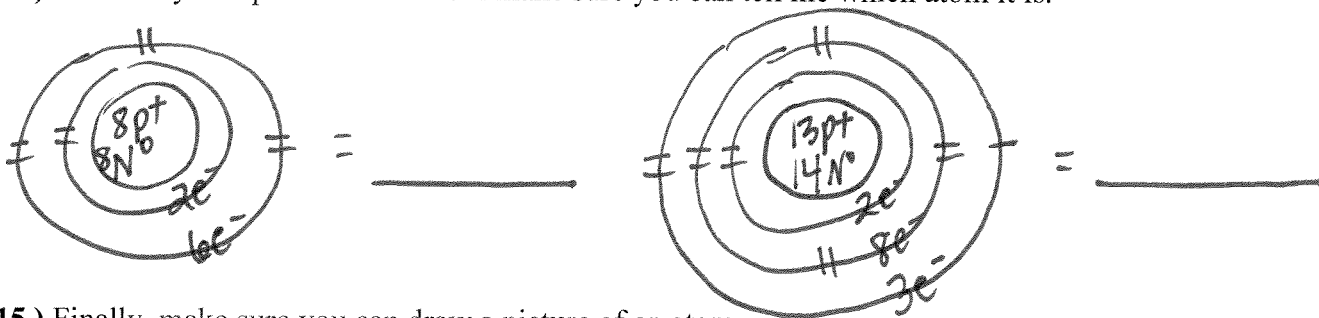
11.) Make sure you can label an element box – with the following information: atomic number, element symbol, element name, and atomic mass. You can find this on the back of the subatomic particles foldable. * On second page ...

A.) _____	7 N	C.) _____
B.) _____	Nitrogen	D.) _____
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12.) Know how to find element names and symbols on the periodic table. Make sure you write the symbol correctly. Ag = Silver (capitol "A" lower case "g")

13.) Make sure you know the difference between groups/families (18) and period/rows (7).

14.) If I draw you a picture of an atom make sure you can tell me which atom it is.



15.) Finally, make sure you can draw a picture of an atom.

Please draw a Carbon (C) atom:

How many P: _____ N: _____ E: _____ are in the Carbon atom?

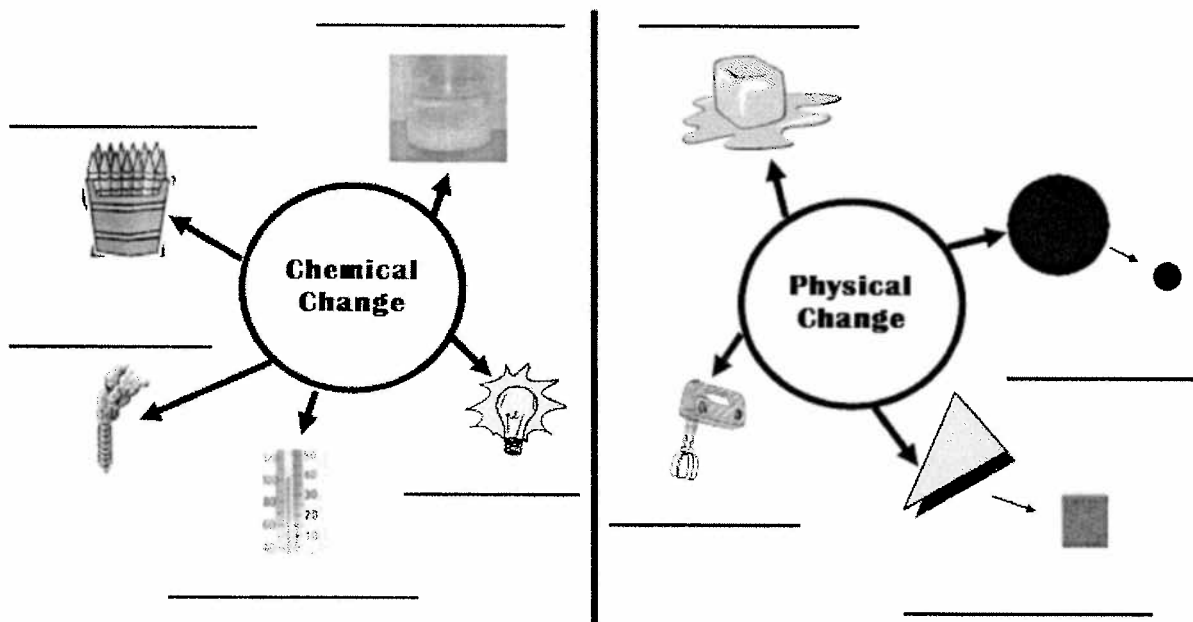
❖ Please use + signs for protons, o signs for neutrons, and - signs for electrons when drawing your atom.

Please draw a Helium (He) atom:

How many P: _____ N: _____ E: _____ are in the Helium atom?

❖ Please use + signs for protons, o signs for neutrons, and - signs for electrons when drawing your atom.

16.) Make sure you could fill in the missing pieces that show evidence that a physical or chemical change has occurred.



Ways to Study...

- You can create a quiz/test for yourself. Go through the study guide and create questions of your own that correlate with what you are expected to know. Take this quiz/test the night before the real test (or the day after or at least a few hours after creating the test) to see how you did.
- You can think of the 5 strategies – See it, Say it, Cover it, Write it, Check it...if all you do is read through old worksheets you are never really checking to see what you actually are capable of.
- Create a T-Chart on paper with vocabulary words on one side and definitions on the other. You could also do this with key concepts or problems.
- Look through the two foldables we created and test yourself on how much you can remember.
- Look at old worksheets and create two piles...what I feel comfortable with and what I need to focus on.
- Work with a partner (parent or friend) and quiz them or have them quiz you...asking you questions that correlate with the study guide.