

Name: _____ Period _____

MATTER WEBQUEST



Before starting on matter, let's review your skills in measurement!

Go to the following site and select "Hard Centimeters."

<http://www.funbrain.com/measure/index.html>

Record your score here: ___/10

Task #1

Complete this Matter Pre-Test (All about Matter):

<http://www.vtaide.com/png/matter.htm>

Rate this Pre-Test:

1 (I had to fix a lot of my answers)
or 2 answers)

2 (I had to fix some of my answers)

3 (I had only to fix 1

Task #2

Go to http://www.chem4kids.com/files/matter_states.html and answer the questions below by using this website-remember to use the tabs on the side also... QUESTIONS ARE MIXED UP!

1. _____ hold huge amounts of energy, and their molecules are spread out as much as possible.
2. Rust is an example of _____ change
3. Elements and compounds can move from one phase to another phase when special _____ are present.
4. What is another word for gas? _____
5. When you reach the temperature of the _____ point, you become a liquid.
6. Melting a sugar cube is a _____ change because the substance is still sugar.
7. Fill in the boxes below to represent each of the phases below:

Solid

Liquids

Gas

Plasma

Einstein ...

8. Scientists use something called a _____ to measure when that liquid turns into a solid.

9. _____ are a lot like gases, but the atoms are different because they are made up of free electrons and ions of the element.
10. The atoms inside of a _____ are not allowed to move around too much.

Task #3

Go to <http://www.factmonster.com/ce6/sci/a0832242.html> to answer the questions below. Use titles under “Sections in this Article” to find the answers. They are all mixed up too!

1. Name 3 properties of matter:
 - a.
 - b.
 - c.
2. The _____ is considered the basic unit of any element.
3. Define Matter:

4. _____ held that all matter is made up of four “elements” – Earth, Air, Fire, and Water.
5. In a _____ change, such as a change of state (e.g., from solid to liquid), the substance as a whole changes, but its underlying structure remains the same.

Task #4 – Fill in the chart below using this site as a reference.

<http://www.chem.purdue.edu/gchelp/atoms/states.html>-

Some Characteristics of Gasses, Liquids, and Solids and the Microscopic Explanations for the Behavior		
Gas	Liquid	
Assumes the shape and volume of its container particles can move past one another	Particles can move/slide past one another	Retains a fixed volume and shape rigid- particles locked into place
Compressible	Not easily compressible little free space between particles	Not easily compressible Little free space between particles
Flows easily Particles can move past one another	Flows easily Particles can move/slide past one another	Rigid- particles cannot move/slide past one another

Task #5

Have fun at this site watching the substance change states.

http://www.harcourtschool.com/activity/states_of_matter/index.html

Task #6

Melting/heating experiment- This one is a challenge. You can start it from the beginning as many times as necessary to help you see the change in temperature.

<http://www.harcourtschool.com/activity/hotplate/index.html>

Once on this site, select the pink or the green material.

(Circle which one you selected.)

What was the melting point? _____

Task #7

Read about Physical/Chemical Changes and take notes from this website below.

http://nobel.scas.bcit.ca/chem0010/unit2/2.3_changes.htm#

What is a physical change

Name 3 examples of physical changes

- A.
- B.
- C.

What is a chemical change?

Name 3 examples of chemical changes

- A.
- B.
- C.

Task #8

Take this quiz to test your knowledge on physical/chemical changes:

<http://www.quiz.com/quiz/303960.htm>

Score __%