**NAME: _____ DATE: ___/___/05**

**SCIENCE: SECTION ___ SCORE: ___/ pts**

# MATTER WEBQUEST

**BEFORE STARTING OUR NEW UNIT ON MATTER, SHOW OFF 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

## NOW LET'S GET STARTED ON MATTER!

**TASK #1**
Complete the matching game at http://www.quia.com/custom/2202gate.html
**If you are having difficulty remembering the definitions of this vocabulary, select the "show answers" tab on the right to help you.

Rate this matching game. Circle one of the numbers below:

1 (Very difficult) 2(Some words were not easy to find.) 3(Easy)

**TASK #2**
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) 2 (I had to fix some of my answers.) 3 (I had to only fix 1 or 2 answers.)

**TASK #3**

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.

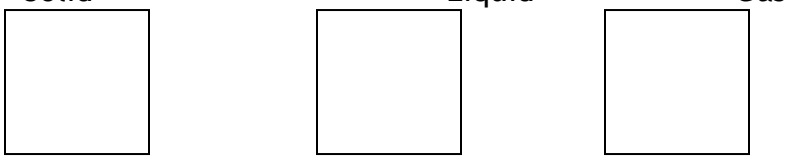
4. What is another word for gas? _____

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 Liquid Gas



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 #4**

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 #5- Fill in the chart below using this site as a reference.**
http://www.chem.purdue.edu/gchelp/atoms/states.html

| **Some Characteristics of Gases, Liquids and Solids and the Microscopic Explanation for the Behavior** | | |
|---|---|---|
| **gas** | **liquid** | |
| assumes the shape and volume of its container<br>particles can move past one another | particles can move/slide past one another | retains a fixed volume and shape<br>rigid - particles locked into place |
| compressible | not easily compressible<br>little free space between particles | not easily compressible<br>little free space between particles |
| flows easily<br>particles can move past one another | flows easily<br>particles can move/slide past one another | rigid - particles cannot move/slide past one another |

**TASK #6**
Have fun at this site watching the substance change states.
http://www.harcourtschool.com/activity/states_of_matter/index.html

**TASK #7**
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?_____

What was the boiling point?_____

**TASK #8**

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 #9**

Take this quiz to test your knowledge on physical/chemical changes:
http://www.quia.com/quiz/303980.html

Score: ___%