MATTER WEBQUEST

BEFORE REVIEWING MATTER, SHOW OFF YOUR SKILLS IN MEASUREMENT

Go to the following site and select “Hard Centimeters”
www.funbrain.com/measure/index.html

Record your score here: ____/____

NOW LET’S REVIEW MATTER!

TASK #1
Complete the matching game at www.quia.com/custom/2202gate.html

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

1 (Very Difficult) 2 (a little difficult) 3 (Easy)

TASK #2
Go to 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. List the three main states of matter. (states)

2. Matter can move from one state to another, requiring extreme
   ________________ and _________________. (phase change I)

3. Chemical changes happen when ________________________________
   ________________________________ during chemical reactions. (Chemical/Physical)
4. List the four examples of a solid (Solid)

5. Why is powder a solid? (solids)

6. List the four examples of gases. (gases)

7.

8. What is another term for gas? ________________ (gases)

9. Fill in the boxes below to represent each of the phases below:

Solid

Liquid

Gas

10. What combination is needed to force gases into containers? (gases)

11. There are an ________________ number of mixtures. (mixtures I)

12. Why is #10 so? (mixtures I)

13. Give another term for mixture.__________________ (mixtures I)

   a. List an example _______________________ (mixtures I)

14. Complete the table using (solutions I)

<table>
<thead>
<tr>
<th>Solution</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas – gas</td>
<td></td>
</tr>
<tr>
<td>Gas – liquid</td>
<td></td>
</tr>
<tr>
<td>Gas – solid</td>
<td></td>
</tr>
<tr>
<td>Liquid – liquid</td>
<td></td>
</tr>
<tr>
<td>Liquid – solid</td>
<td></td>
</tr>
<tr>
<td>Solid – solid</td>
<td></td>
</tr>
</tbody>
</table>
TASK #3
Go to www.factmonster.com/ce6/sci/A0832242.html to answer the questions below.

1. Define matter: (intro)

2. Name 3 properties of matter: (properties)
   a. 
   b. 
   c. 

3. ______________ held that all matter is made up of four “elements”- earth, air, fire, and water. (early theories)

4. The ______________ is considered the basic unit of any element (modern theory)

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. (modern)

TASK #4
Fill out the chart below using this site as a reference. (You need to complete the chart by filling in the information in red)

www.chem.purdue.edu/gche/lp/atoms/states.html

<table>
<thead>
<tr>
<th>Some Characteristics of Gases, Liquids and Solids and the Microscopic Explanation for the Behavior</th>
<th>Gas</th>
<th>Liquid</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assumes the shape and volume of its container</td>
<td>assumes the shape of the part of the container which it occupies</td>
<td>Retains a fixed volume and shape</td>
<td></td>
</tr>
<tr>
<td>Compressible</td>
<td>Not easily compressible</td>
<td>Not easily compressible</td>
<td></td>
</tr>
<tr>
<td>Flows easily</td>
<td>Flows easily</td>
<td>Does not flow easily</td>
<td></td>
</tr>
</tbody>
</table>
**TASK #5**
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


Once on the site, select the PINK AND GREEN material.

PINK
What is the Melting Point? 

GREEN
What is the Melting Point? 

What is the Boiling Point? 

What is the Boiling Point? 

**TASK #6**
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 #7**
Take this quiz to test your knowledge on physical/chemical changes:

www.quia.com/quiz/303980.html

Score : __________/ __________