Matter Webquest!

| Name | | Block | Date | - |
|---|--|----------------|-----------------------|-----|
| Before starting our quest to ho let's do a bit of measuring! | one our skills on states of matter, | | | |
| Go to the following website and | | 5 | 0 | |
| http://www.funbrain.com/me | easure/index.html | 4 | | |
| Record your score here: | / 10 | j | | |
| Now Let's Get s | STARTED ON MATTER! | | 2 | |
| Task #1 | | | | |
| Complete the matching game | at ht to help you! | | | |
| Rate this matching gam | ne: Circle one of the numbers below | w: | | |
| 1 (very difficult) | 2 (some words were not easy) | 3 (e | asy) | |
| Task #2 | | | | |
| Complete this matter pre-test | | | | |
| http://www.vtaide.com/png/ | <u>matter.htm</u> | | | |
| • 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 only fixe | d 1 or 2 of my answer | s) |
| <u>Task #3</u> | | | | |
| Go to http://www.chem4kids. | com/files/matter_states.html and to use the tabs on the side also! (| | • | эy |
| | old huge amounts of energy, and th | heir molecul | es are spread out | as |
| much as possible. | | | | |
| 2.) Rust is an example of $_$ | change. | | | |
| • | ds can move from one phase to and | other phase | when special | |
| | or gas? | | | |
| | nperature of the | point | , you become a liq | uio |

| | gar cube is a | change because the substance is still |
|---------------------------------------|-----------------------------------|--|
| sugar. 7) Fill in the ho | yes helow with a drawina to ren | resent each of the phases below: |
| 7.7 Till ill cho box | tes below with a arawing to rep | reserve even of the phases below. |
| Solid | Liquid | Gas |
| | | |
| | | |
| | | |
| | | |
| | | |
| 8) Scientists use | e somethina called a | to measure when liquid turns |
| into a solid. | o something comou at | to module when hypid carrie |
| | are a lot like agges | but the atoms are different because they are |
| | | |
| made up of f | ree electrons and ions of the ele | ment. |
| (2) 71 | | |
| 10.) The atoms in | nside of a | are not allowed to move around too much. |
| | | |
| Task #4 | | |
| · · · · · · · · · · · · · · · · · · · | factmonster.com/ce6/sci/A083 | <u>82242.html</u> to answer the questions below. use |
| • | | answers. They are MIXED UP too! |
| | | |
| • • | erties of matter: | |
| _ | | |
| | | |
| | | |
| 2.) The | is considered the | e basic unit of any element. |
| 3.) Define matte | r: | |
| | | |
| 4) | held that all matter i | s made up of four "elements" - earth, air, fire, |
| 4./ | | s made up of four elements - earth, air, fire, |
| 5)) | water | and the same of the barbar for a figure of the same of |
| | | s a change of state (e.g., from a solid to a ut its underlying structure remains the same. |
| ווקמומן, נוופ פו | assimiled we writere criminges, D | at its allowinging our acture remains the sume. |

Task #5

Fill in the chart below using this site as a reference:

http://www.chem.purdue.edu/qchelp/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 | | retains a fixed volume and shape |
| particles can move past one another | particles can move/slide past one another | rigid - particles locked into place |
| compressible | not easily compressible little free spaces between particles | not easily compressible little free spaces between particles |
| flows easily particles can move past one another | flows easily particles can move/slide past one another | particles can move 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 GREEN material. | (Circle which one you selected!) |
|---|----------------------------------|
| What is the melting point? | |
| What is the boiling point? | |

<u>Task #8</u>

Read abou physical and chemical changes and take notes from this website:

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

| 1.) What is a physical change? |
|--|
| 2.) Name 3 examples of a physical change: |
| a |
| b |
| c |
| 3.) What is a chemical change? |
| 4.) Name 3 examples of a chemical change: a. |
| <u>ask #9</u> ake this quiz to test your knowledge on physical vs chemical changes: |
| ttp://www.quia.com/quiz/303980.html |
| that was your score? |