Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chemical/Physical Changes Guided Reading Webquest

Go to: <http://schools.utah.gov/arc/curr/grade8scienceoer.pdf>

**Properties (p. 15)** Or google search: USOE 8th grade science textbook

|  |  |
| --- | --- |
| **Physical -** | **Chemical -** |
| What are a few of the physical properties of matter?  What is density?  Write down the formula for calculating density.  What is the density of a substance that has a mass of 50 g and a volume of 10 mL? (show your work)  Compare the density of a bowling ball to a volley ball | Define chemical property:  What are the two examples of chemical properties?  What is Reactivity?  What is the example of reactivity given?  Create another example of a substance that has reactivity. |

**Changes (p. 19)**

|  |  |
| --- | --- |
| **Physical** | **Chemical** |
| What is a physical change?  Give examples of physical change  Why are physical changes easy to undo?  When can physical changes not be reversed? | What is a chemical change?  Give examples of chemical change  How can you tell if a chemical change has occurred?  Every chemical change will create what?  Is it easy to undo a chemical reaction? Why? |

**Words to define:**

Density-

Chemical change-

Physical change-

Condensation-

Evaporation-

Vaporization-

Freezing-

Melting-

Chemical Equation-

* Write down an example of a chemical equation.

Reactants-

Products-

**Go To:** [**www.chem4kids.com/files/react\_intro.html**](http://www.chem4kids.com/files/react_intro.html)and answer the following questions

Reactions occur when two or more \_\_\_\_\_\_\_\_\_\_\_\_ interact and the molecules \_\_\_\_\_\_\_\_\_\_.

What are made of broken in order to create a new molecule? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What type of reaction does an air conditioner do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Look at the chemical equations at the bottom of the web page, write down the top formula on your paper then label the reactants and the products.

Click next page on reactions

What does “rate of reaction” mean?

What can affect the rate of reaction?