Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *Chemical and Physical Changes and Properties Webquest*

1. **Use the following websites to create a complete definition for the following terms and answer the questions below:**

<http://www.physlink.com/Education/AskExperts/ae244.cfm>

<http://dl.clackamas.edu/ch104-01/DistChemPhyChange.htm>

* Physical Change:
* Chemical Change:

1. **Check this out:** <http://www.mcwdn.org/chemist/pcchange.html>

* What is an endothermic reaction?
* What is an exothermic reaction?
* What is a catalyst in a chemical reaction? Give one example.

1. **Using** <http://www.ric.edu/faculty/ptiskus/chemical/>, **identify six (6) clues that can be used to determine if a chemical change has taken place.**

1.

2.

3.

4.

5.

6.

1. **Using** [**http://www.iun.edu/~cpanhd/C101webnotes/matter-and-energy/properties.html**](http://www.iun.edu/~cpanhd/C101webnotes/matter-and-energy/properties.html) **answer the following:**

* Chemical Property:
* Physical Property:

1. **List the following as physical or chemical properties of a substance:**

* Water boils at 100 degrees Celsius:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Diamonds can cut glass: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Water can be separated by electrolysis into hydrogen and oxygen atoms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Sugar dissolves in water: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Yeast and sugar forms carbon dioxide and ethanol: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Iron rusts in a damp environment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Using** [**http://antoine.frostburg.edu/chem/senese/101/matter/faq/physical-chemical.shtml**](http://antoine.frostburg.edu/chem/senese/101/matter/faq/physical-chemical.shtml)**, give an example of a complex reaction that involves BOTH chemical and physical changes:**
2. **For each of the following links, decide if you are observing a physical or a chemical reaction AND justify your answer with TWO (2) reasons.**

<https://www.youtube.com/watch?v=XfW6r64GVC0>

* What two (2) things are reacting?
* Physical or chemical? Provide **TWO** reasons.

<https://www.youtube.com/watch?v=QoP9F4ogxC0>

* What two (2) things are reacting?
* Physical or chemical? Provide **TWO** reasons.

<https://www.youtube.com/watch?v=LjbJELjLgZg>

* What two (2) things are reacting?
* Physical or chemical? Provide **TWO** reasons.

<https://www.youtube.com/watch?v=fXf9-2JM7lM>

* What two (2) things are reacting?
* Physical or chemical? Provide **TWO** reasons.

1. **Take the QUIZ on the website** [**http://www.quia.com/quiz/303980.html**](http://www.quia.com/quiz/303980.html) **to practice chemical/physical changes/properties. Then record your score at the bottom.**
   * SCORE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_