

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:

→ <https://www.youtube.com/watch?v=x49BtB5dOwg&feature=youtu.be>

→ <https://www.youtube.com/watch?v=Z5L2NOMEWT0&feature=youtu.be>

- Physical Change:
- Chemical Change:

2) Check this out: <https://www.youtube.com/watch?v=L-G7pLufXAo&feature=youtu.be> and https://www.youtube.com/watch?v=m_9bpZep1QM&feature=youtu.be

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

3) 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.

4) Using answer the following: <https://www.youtube.com/watch?v=wIV7baF4ZsM>

- Chemical Property:
- Physical Property:

5) 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: _____

6) Using <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:

7) 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=fXf9-2JM7IM>

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

8) Take the QUIZ on the website <http://www.quia.com/quiz/303980.html> to practice chemical/physical changes/properties. Then record your score at the bottom.

a. SCORE: _____