

## Chemical and Physical Changes Web Quest

Go to the following link and answer the following questions: <http://www.ric.edu/faculty/ptiskus/chemical/>

1. The explosion of \_\_\_\_\_ is an example of chemical change.
2. During a \_\_\_\_\_ change substances are \_\_\_\_\_ into \_\_\_\_\_ substances.
3. In other words, the \_\_\_\_\_ of the substance \_\_\_\_\_.
4. \_\_\_\_\_ changes are relatively easy to \_\_\_\_\_.
5. If only the \_\_\_\_\_ of a substance \_\_\_\_\_ you have \_\_\_\_\_ a physical change.

### Color Changes:

1. As in the case of autumn leaves a \_\_\_\_\_ in \_\_\_\_\_ is a clue to indicate a \_\_\_\_\_ change.
2. Perhaps you have found a half eaten apple that turns \_\_\_\_\_. The reason is that a \_\_\_\_\_ change has occurred when food spoils.

### Energy-Absorbed or Released:

1. Another sign of a \_\_\_\_\_ change is the \_\_\_\_\_ or \_\_\_\_\_ of energy by an object.
2. Many substances \_\_\_\_\_ energy to \_\_\_\_\_ a chemical change.
3. Energy is \_\_\_\_\_ during chemical changes involved in cooking in \_\_\_\_\_.
4. Energy can also be \_\_\_\_\_ during a chemical change.
5. The \_\_\_\_\_ that were mentioned above \_\_\_\_\_ energy in a form of \_\_\_\_\_ that you can see.

### Odor Changes:

1. When eggs and food \_\_\_\_\_ they undergo a chemical \_\_\_\_\_.
2. The change in \_\_\_\_\_ is a clue to the chemical change.
3. You can use this \_\_\_\_\_ to avoid eating \_\_\_\_\_ food and becoming \_\_\_\_\_.

### Production of Gases or Solids:

1. The formation of a \_\_\_\_\_ is a clue to chemical changes.
2. The \_\_\_\_\_ of gas that you observed form when an \_\_\_\_\_ is dropped into water is an example of \_\_\_\_\_.
3. Another \_\_\_\_\_ that a chemical change has occurred is the \_\_\_\_\_ of a solid.
4. A \_\_\_\_\_ that separates out of \_\_\_\_\_ during a chemical change is called a precipitate.

Click on Precipitate to check out the pictures. Watch the short video.

### Not Easily Reversed:

1. \_\_\_\_\_ and \_\_\_\_\_ are physical changes.
2. The \_\_\_\_\_ produced during \_\_\_\_\_ changes, however \_\_\_\_\_ easily \_\_\_\_\_ back into the \_\_\_\_\_.
3. The most \_\_\_\_\_ thing for you to remember is that in a \_\_\_\_\_ change the \_\_\_\_\_ of a substance does \_\_\_\_\_ change and in a chemical \_\_\_\_\_ the \_\_\_\_\_ of a substance \_\_\_\_\_ change.

### Chemical Reactions:

1. Chemical changes are called chemical \_\_\_\_\_.
2. Chemical reactions involve \_\_\_\_\_ different substances.
3. The chemical reaction \_\_\_\_\_ a new substance with \_\_\_\_\_ and \_\_\_\_\_ physical and chemical properties.
4. Matter is NEVER \_\_\_\_\_ or \_\_\_\_\_ in chemical reactions.
5. The \_\_\_\_\_ of one substance are \_\_\_\_\_ to form a new substance.
6. The \_\_\_\_\_ number of particles that exist \_\_\_\_\_ the reaction exist \_\_\_\_\_ the reaction.

Click on the following website and answer the following questions:

[http://nobel.scas.bcit.ca/chem0010/unit2/2.3\\_changes.htm#](http://nobel.scas.bcit.ca/chem0010/unit2/2.3_changes.htm#)

1. What is a physical change?
2. List 6 examples of a physical change.
3. What is a chemical change?
4. List 4 examples of chemical changes.

Go to the following website and answer the following questions:

<http://antoine.frostburg.edu/chem/senese/101/matter/faq/physical-chemical.shtml>

1. What new information can you add to your definition of physical change?
2. What new information can you add to your definition of chemical change?

Go to the following website and quiz your knowledge on physical and chemical changes.

<http://www.quia.com/quiz/303980.html>

Score: \_\_\_\_\_%