

CHEMICAL REACTIONS WEBQUEST

For each section, answer the following questions using the resource provided.
PLEASE TYPE ALL ANSWERS. They are too hard to read if you write with your finger.

Section 1

<https://courses.lumenlearning.com/introchem/chapter/physical-and-chemical-changes-to-matter/>

1. What is the definition of a physical change?
2. What is the definition of a chemical change?
3. Give four examples of processes that are physical changes.
4. Are changes in state of matter physical or chemical changes? Explain.
5. Define the term reactants.
6. Define the term products.
7. Give four examples of things that are chemical changes.

Section 2

http://www.chem4kids.com/files/matter_chemphys.html

8. What happens on a molecular level during a chemical change?
9. Is burning a substance a physical or chemical change?

10. Explain why rusting is a chemical change.

Section 3

<https://sciencing.com/seven-things-indicate-chemical-change-occurring-12107532.html>

11. After reading the article, complete the following table

Sign of Chemical Change	Description of what happens	Example with explanation

Section 4

<https://games.legendsoflearning.com/game/chemical-reaction-evidence-of-a-reaction/1209?partner=legends-public&media=game>

In order to fully access this game, you will need to log into Legends of Learning. If you do not have an account, you can make one for free. In addition to using the link above, you can search the game name “chemical reactions: evidence”.

12. What is produced when you mix baking soda and vinegar?

13. Of these four, what does not happen during a chemical reaction? (Highlight your answer.)

- Atoms rearrange.
- Molecular bonds are broken.
- New molecular bonds are made.
- Nuclei of atoms disintegrate.

14. Name one of the boxes you put in the “did occur” side for the chemical reaction table.

15. Name one of the boxes you put in the “did not occur” side for the chemical reaction table.

Section 5

<https://games.legendsoflearning.com/game/chemiflage-mid/662?partner=legends-public&media=game>

In order to fully access this game, you will need to log into Legends of Learning. If you do not have an account, you can make one for free. In addition to using the link above, you can search the game name “chemiflage (mid)”. After playing the game, answer the following questions.

16. How did you know a chemical reaction had occurred?

17. How might a chemical change be reversed?