

Lesson 9: Is Electrolysis a Chemical Reaction?

Brain Building Broadcast: Electrolysis

Purpose

Watch the video located at any one of the following addresses:

<http://goo.gl/Onsb5>

<http://vimeo.com/52171854>

<http://www.youtube.com/watch?v=cUka4jt-OK0&feature=g-user-u>

Watch the video carefully and be sure that you understand the lesson. Re-watch any part of the video that is unclear to you. After watching the video carefully, answer the following questions:

Word Wall:

Using electricity to break apart molecules is called _____.

Questions

1. Is electrolysis of water a chemical reaction?

- a. Yes, the water atoms rearrange into oxygen and hydrogen molecules.
- b. Yes, the water has different properties from the oxygen and hydrogen molecules.
- c. No, the water has the same arrangement of atoms before and after electrolysis.
- d. "a" and "b" are both correct.

2. Which of the following is true about boiling water?

- a. Boiling water is a chemical reaction because the water's atoms are rearranged.
- b. When boiling water, atoms stay in the same arrangement, but they spread farther apart.
- c. The chemical formula of water changes before and after boiling.
- d. None of the above are true.

3. The test tube that was full of gas was filled with _____ and the test tube that had half the gas was filled with _____.

4. Based on this Brain Building Broadcast, how many reactants are required for a chemical reaction to happen?

- a. 1
- b. 2
- c. 3
- d. 4

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

