

Name _____

Date _____

Discovery Ed: Chemical Reactions

Log into Discovery Ed and go to your classroom assignment. Read and watch the videos in order complete this assignment.

1. Read the first 2 paragraphs, what do cooking an egg and wondering about reactions from carbonated beverages have in common? _____.
2. Watch the first cola myth video. Make a prediction about what you think is going to happen.
3. Watch the second video. Was your prediction correct (it's ok to be wrong)? _____
4. How strong is the acid in cola?
5. Click on the terms **corrosive** and **chemical**. Define these words below by reading the definition, watching the animation, and watching the video for more understanding.
 - a. Corrosive-
 - b. Chemical-
6. Name 4 common chemical reactions
 - a.
 - b.
 - c.
 - d.
7. Complete the Interpreting Equations section
 - a.
 - b.
 - c.
8. Match the terms to the correct description. Put your score here _____/4
9. What kind of changes occur during chemical reactions and how do these changes affect the atoms and masses of the reactants and products?

10. Click on the terms **physical change** and **chemical change**. Define these words below by reading the definition, watching the animation, and watching the video for more understanding.
- Physical change-
 - Chemical change-
11. Give at least 1 comparison between a physical change and a chemical change.
12. Do the exploration fizz, foam, and flames. Read the directions carefully. Tell whether a **chemical change** or **physical change** has taken place **and** how you know. Write your results to each combination in the space provided below.
- Water and baking soda-
 - Water and baking powder-
 - Vinegar and baking soda-
 - Vinegar and baking powder-
13. What happens to the atoms in substance when they undergo a chemical reaction?
14. Click on the term chemical reaction. Define it below by reading the definition, watching the animation, and watching the video for more understanding.
- Chemical reaction-
15. Watch: Changes in Matter. Write at least 3 sentences that summarize the video.
16. What happens to the mass of the reactants in a chemical reaction?
17. How does energy change during a chemical reaction?

18. Click on the terms endothermic and exothermic. Define these words below by reading the definition, watching the animation, and watching the video for more understanding.

a. Endothermic-

b. Exothermic-

19. Watch: Endothermic vs. Exothermic. Make a T-Chart to compare the 2 terms.

20. What 4 factors affect the rate of a chemical reaction?

a.

b.

c.

d.

21. Watch the following videos and write at least 3 sentences that summarize the video:

a. Exothermic and Endothermic reactions

b. Chemical reactions form compounds

c. Introduction to chemical reactions

22. Summarize what you have learned in this lesson. Make sure to include: what chemical changes and reactions are. Evidence and examples of chemical changes. What atoms are and how they are affected in chemical reactions. Include reactants and products as well as what endothermic and exothermic mean to a chemical reactions. Add any other details.