



## CHEMICAL REACTIONS TREASURE HUNT

Name \_\_\_\_\_

1.) Name 5 evidences for chemical reactions. Give an example for each from the above links.

2.) What is an exothermic reaction?

3.) What is an endothermic reaction?

4.) What is a precipitate?

5.) What is the difference between a physical & chemical change?

6.) What are the starting materials in a chemical reaction called?

7.) What are the ending materials called?

8.) The arrow can "say" what 3 things?

9.) What do the symbols (s), (l), (g), (aq) and ( $\Delta$ ) stand for?

10.) What do you think this  $\rightleftharpoons$  means?

11.) What is the easy way of stating the law of conservation of mass & what does this have to do with chemical equations?

12.) What is a coefficient?

13.) True or False. You can change a coefficient but never a subscript.

14.) What is the rule for a balanced equation? Each side must have....

15.) Try a few of the practice problems near the bottom of the page, you can check yourself (Put work here)

16.) What are the 5 main types of chemical reactions? What is the general equation for each?

17.) Which type of reaction always has oxygen in the reactants & carbon dioxide & water in the products?

18.) Which type of reaction breaks down a compound into smaller parts?

19.) Which type of reaction yields 2 new compounds?

20.) Which type of reaction yields a new "free" element and a compound?

21.) Is this an exothermic or endothermic reaction? Explain your answer

22.) Write the equation for the chemical reaction taking place? Which of the 5 main types is this?

23.) Which main type of reaction do you think this is? Explain your answer (hint: orange stuff)

24.) Write the general equation for the reaction. Which main type of reaction is this?

25.) Write the balanced equation for the reaction.

25.) Is this exothermic or endothermic? Explain your answer