**GPS – Types of Chemical Reactions Notes**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

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| ***Bellwork*** | |
| http://www.senecafreelibrary.org/wp-content/uploads/2014/05/Youth-14-Experiment.jpg | 1. What is a chemical reaction? Give an example. |
| 1. http://cdn.c.photoshelter.com/img-get/I0000mWH2gkOf.EQ/s/860/860/Fphoto-45739812C-2RM.jpgA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process by which one or more substances\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into new substances. 2. What are some things that show a chemical reaction is happening?   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. What do we call a solid formation in a chemical reaction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. What are the parts in a chemical reaction?  ∙ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ substances in the chemical reaction.   ∙ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the substances that are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the chemical reaction.   1. Label the formula for a reaction.  2 Al + 3Br2 🡪 2AlBr3 2. What are the four types of reactions you read about?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction occurs when two substances, usually two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ combine and form one \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **A + B 🡪 AB** 4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction occurs when one \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ compound is broken down into \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ substances. **AB 🡪 A + B** 5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction occurs when one \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_takes the place of another in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **A + BC 🡪 B + AC** 6. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction occurs when ions \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ places in \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   **AB + CD 🡪 AD + CB  We are going to add ONE more very important reaction!** 7. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction is a reaction of a carbon-based compound with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   **C3H8 + O2 → CO2 + H2O** | |

***Work now on the following worksheets. You will need 4 colored pencils.***