**Chemical Reactions Tree Map Key**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Type of |  | **Synthesis** | | |  |  | **Decomposition** | |  |  | **Single** | | |  | **Double** | |  |
| reaction |  |  |  |  |  |  |  |  |  |  | **Replacement** | | |  | **Replacement** | |  |
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| What is the |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| generic |  |  | **A + B AB** | |  |  |  |  |  |  | **A + BC  AC + B** | | |  |  |  |  |
| form of |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| each? |  |  |  |  |  |  | **AB  A + B** | |  |  |  |  |  |  | **AB + CD  AD + CB** | |  |
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| How are |  |  | **They have elements and compounds listed in all of the equations. They have a reactant side** | | | | | | | | | | | | | | | | |
| these |  |  | **and a product side.** | | | | | | | | | | | | | | | | |
| alike? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | **Element + element** | **Compound =** | **Element +** | **Compound +** |
| How are | **= compound** | **element + element** | **compound =** | **compound= 2** |
| these |  |  | **different compound** | **different** |
| different? |  |  | **+ element** | **compounds** |
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| What do you |  | **1 product** | |  | **1 reactant** | |  | **Element +** | |  | **2 compounds** | |  |
| look for that |  |  |  |  |  |  |  | **compound** | |  |  |  |  |
| tells you the |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| type of |  |  |  |  |  |  |  |  |  |  |  |  |  |
| reaction? |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |