**Single Replacement Activity Series Family/Home Project**

**Concept:** We have been learning that the activity series of metals relates to the reactivity of metals. They ability to react is always from highest to lowest. The reactivity of metals is used in order to determine if a single replacement reaction will take place.

**Task:**  As a family, design a way to model and explain the activity series.  Think about your ranking of your 5 favorites. Remember my samples? For example, if someone asked me to go on a vacation to Amsterdam, I would definitely agree to go. Now, if someone else then asked me to go to Paris, I would dump my Amsterdam friend to go to Paris. In addition, although I love Venice, that vacation could be replaced by any of my other 4 vacation choices because it is on the bottom of my favorites. The only vacation that I would not give up and replace would be Valencia, Spain. That is my top vacation place and is top of the activity series.

**Submission:** Create a media display of your activity serios.  Some examples might be a photo collage, video, PowerPoint, or brochure. Submit your media display by May 7th for B-day and May 8th for A-day for maximum points. I will accept it after that date for a slight deduction each day late.

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| Description | Exemplary | Proficient | Developing | Needs Improvement |
| 3pts | 2pts | 1pt | 0.5 pt |
| Created  an  Activity  Series | Created and explained activity series with at least 5 ranked | Created and partial explained activity series 5 ranked | Created and partial explained activity series <5 ranked | Failed to create and explain an activity series |
| Demonstrated  Successful Replacements  Using Created  Activity Series | Demonstrated and explained a successful replacement using the activity series of at least 2-3 reactions | Demonstrated and partially explained a successful replacement using the activity series of at least 2-3 reactions | Demonstrated and partially explained a successful replacement using the activity series of at least 1 reaction | Failed to demonstrated and partially explained a successful replacement reaction |
| Demonstrated Unsuccessful Replacements that Resulted in No Reaction Due to Activity | Demonstrated and explained an unsuccessful replacement using the activity series of at least 2-3 reactions | Demonstrated and partially explained an unsuccessful replacement using the activity series of at least 2-3 reactions | Demonstrated and partially explained an unsuccessful replacement using the activity series of at least 1 reaction | Failed to demonstrated and partially explained an unsuccessful replacement reaction |
| TOTAL POINTS EARNED | \_\_\_\_\_\_\_ x 9 = \_\_\_\_\_\_\_/ 27PTS | | | |