**METAL DISPLACEMENT REACTIONS**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Marks: \_\_\_\_\_\_\_\_\_\_\_**

OBJECTIVE: To arrange metals from most reactive to least reactive based on their displacement reactions.

WHAT KIND OF CHEMICAL REACTION WILL HAPPEN? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

METALS USED: Cu, Pb, Sn, Mg, Zn, and Fe

HYPOTHESIS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

RESULTS TABLE: Tick if displacement occurs and explain why.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metals 🡪Solutions | \/ | Cu | Pb | Sn | Mg | Zn | Fe |
| CuSO4 |  |  |  |  |  |  |
| PbNO3 |  |  |  |  |  |  |
| SnNO3 |  |  |  |  |  |  |
| MgSO4 |  |  |  |  |  |  |
| ZnSO4 |  |  |  |  |  |  |
| FeSO4 |  |  |  |  |  |  |

BASED ON YOUR RESULTS TABLE, arrange the metals according to their reactivity.

most reactive -------------------------------------------------------------------------------------------🡪 least reactive

Do the results support your hypothesis? Why or why not?