# Activity Series Chart

## Metals

## Non-Metals

*Most Active*

| Name | Symbol |
|---|---|
| Lithium | Li |
| Potassium | K |
| Barium | Ba |
| Strontium | Sr |
| Calcium | Ca |
| Sodium | Na |
| Magnesium | Mg |
| Aluminum | Al |
| Manganese | Mn |
| Zinc | Zn |
| Iron | Fe |
| Cadmium | Cd |
| Cobalt | Co |
| Nickel | Ni |
| Tin | Sn |
| Lead | Pb |
| Hydrogen | H |
| Copper | Cu |
| Silver | Ag |
| Mercury | Hg |
| Gold | Au |

*Least Active*

*Lithium through Sodium can replace a Hydrogen in a water molecule*

*Magnesium through Lead can replace a Hydrogen in an acid molecule*

| Name | Symbol |
|---|---|
| Fluorine | F |
| Chlorine | Cl |
| Bromine | Br |
| Iodine | I |

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**Elements CANNOT replace anything ABOVE them.**
**The reaction DOES NOT occur in this situation.**

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**Examples:** $ZnCl_2 + Mg \rightarrow MgCl_2$

*Magnesium is above Zinc so the reaction happens*

$ZnCl_2 + Cu \rightarrow$ No Reaction

*Copper is below Zinc so no reaction happens*