

Naming Compounds

Name the compounds formed when there is chemical reaction between these elements:

1. zinc + oxygen → **zinc oxide**
2. 1 carbon atom + 2 oxygen atoms → **carbon dioxide**
3. magnesium + oxygen → **magnesium oxide**
4. lithium + nitrogen + oxygen → **lithium nitrate**
5. potassium + chlorine → **potassium chloride**
6. 1 carbon atom + 3 oxygen atoms → **carbon trioxide**
7. calcium + fluorine → **calcium fluoride**
8. nitrogen + silver → **silver nitride**
9. potassium + chlorine + oxygen → **potassium chlorate**
10. copper + oxygen + sulfur → **copper sulfate**

Stretch: Describe how you would explain the rules for naming compounds to a Year 7 pupil.

- **Metal goes first**
- **Second word (non-metal) ends in 'ide'**
- **If both elements are non-metals prefixes are used to identify how many of each are present (e.g. dioxide)**
- **If there are three elements present, including oxygen, the second word ends in 'ate'**

