

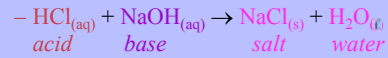
5.2 Salts

- **Salts** are ionic compounds formed when acids & bases react OR when oxides or carbonates react with acids OR when metals react with acids.
- Table salt, (NaCl) is only one kind of **salt**:
 - is found in seawater, salt lakes or rock deposits.
- Salts are found in many things: in batteries, explosives, fertilizers, multivitamins and many living cells

Salt crystals in Death Valley



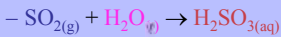
- **Neutralization** reactions occur when an **acid** and a **base** react to produce a salt and water.



- **Metal oxides** react with **water** to form **bases**.



- **Non-metal oxides** react with **water** to form **acids**



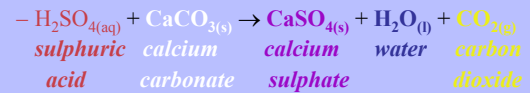
- Non-metal oxides are formed from the burning of fossil fuels
 - Add water in the atmosphere = acid precipitation

The effects of acid rain on a forest



- **Acids and Carbonates**

- Carbonates (CO₃) neutralize acids, protecting locations with natural carbonate supplies from acid precipitation.



- **Acids and Metals**

- The most **reactive metals**, at the bottom of groups 1 and 2, react vigorously with **water** and **acids**.
- When **metals** do react with acids, H₂ gas is usually released and a salt is formed.

