**1** Acids also produce salts when they react:

 Sulfuric acid always produces sulfates.

 Hydrochloric acid always produces chlorides.

 Nitric acid always produces nitrates.

 Ethanoic acid always produces ethanoates.

Complete the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Acid** | **Other reactant** | **Salt produced** | **Other product(s)** |
| hydrochloric acid | Magnesium |  |  |
| nitric acid | copper carbonate |  |  |
| sulfuric acid | Magnesium |  |  |
| sulfuric acid | Iron |  |  |
|  | Zinc | zinc chloride |  |
|  | sodium carbonate | sodium sulfate |  |
| hydrochloric acid | calcium hydroxide |  |  |
| ethanoic acid |  | sodium ethanoate | water |
| nitric acid | ammonia solution |  |  |

**2** Complete the table of solubility. TICK the second row if all is soluble or STATE the exemptions if NOT all are soluble (give at least one example).

|  |  |  |
| --- | --- | --- |
| **Salts** | **Soluble** | **Insoluble** |
| Sodium salts |  |  |
| Carbonates |  |  |
| Ammonium salts |  |  |
| Sulfates |  |  |
| Ethanoates |  |  |
| Chlorides |  |  |
| Nitrates |  |  |
| Potassium salts |  |  |