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| **Common name** | **Scientific name** | **Formula** | **Names of Atoms** | **Number of each Atom** |
| Sand | Silicon Dioxide | SiO2 |  |  |
| Vinegar | Acetic acid or ethanoic acid | CH3COOH |  |  |
| Stomach acid | Hydrochloric acid | HCl |  |  |
| Alcohol | Ethanol | C2H5OH |  |  |
| Baking soda | Sodium bicarbonate | NaHCO3 |  |  |
| Drain cleaner/caustic soda/lye | Sodium Hydroxide | NaOH |  |  |
| Table salt | Sodium Chloride | NaCl |  |  |
| Corn syrup | Fructose | C6H12O6 |  |  |
| Limestone | Calcium carbonate | CaCO3 |  |  |
| Rust | Iron oxide | Fe2O3 |  |  |
| Bleach | Sodium hypochlorite | NaClO |  |  |
| Table sugar | Sucrose | C12H22O11 |  |  |
| Laughing gas | Nitrous Oxide | N2O |  |  |
| Epsom salt/bath salt | Magnesium sulfate | MgSO4 |  |  |

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| **Name** | **Formula/Symbol** | **Element or compound?** |
| Ammonia | NH3 | Compound |
| Carbon |  |  |
| Carbon dioxide |  |  |
| Carbonate | CO32- |  |
| Chlorine |  |  |
| Gold |  |  |
| Hydrochloric acid | HCl |  |
| Hydrogen |  |  |
| Iron |  |  |
| Lead |  |  |
| Methane | CH4 |  |
| Potassium |  |  |
| Sodium |  |  |
| Sodium hydroxide | NaOH |  |
| Sulfuric acid | H2SO4 |  |
| Tin |  |  |
| Zinc |  |  |

Define the following terms:

1. Atom

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1. Molecule

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1. Compound

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1. Element

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1. Mixture

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1. Melting

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1. Boiling

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1. Condensation

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1. Sublimation

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1. Freezing

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1. Solution

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1. Solvent

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1. Solute

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Draw a **labelled diagram** to show the particles in a solid, liquid and gas.