# Image result for Water MoleculeSec1 Sci C7p Elements, molecules and compounds

**Cut out the boxes and arrange them into the order:**

**Formula 🡪 description of molecule 🡪 Properties 🡪 Element/compound**

|  |  |  |  |
| --- | --- | --- | --- |
| **Description of molecule** | **Formula** | **Name and info** | **Element or compound?** |
| **Two hydrogen atoms bonded to one oxygen atom in the middle** | N2 | **Carbon dioxide**  **A colourless gas found in fizzy drinks and released when you burn fossil fuels** | **Compound** |
| **Two bromine atoms bonded together** | S8 | **Sulfur dioxide**  **This gas is made from burning fuels with sulfur in them. It is poisonous and colourless.** | **Compound** |
| **Two oxygen atoms attached to one carbon atom in the middle** | H2O | **Oxygen**  **The second most common gas in air, it is needed to burn fossil fuels.** | **Compound** |
| **Eight sulfur atoms bonded to each other making a ring** | O2 | **Nitrogen**  **This unreactive colourless gas is 78% of the Earth’s atmosphere.** | **Compound** |
| **Six carbons bonded in a ring with six oxygens and twelve hydrogens bonded to the carbons** | Br2 | **Sulfur**  **A yellow solid that does not conduct electricity, it is sometimes found near volcanoes.** | **Compound** |
| **Two nitrogen atoms bonded together** | CO2 | **Water**  **Inside this colourless liquid all life on Earth happens. It freezes at** 0ºC. | **Element** |
| **Two oxygen atoms bonded together** | C6H12O6 | **Chlorine**  **An reactive green gas that is poisonous** | **Element** |
| **Four hydrogen atoms bonded to a carbon atom in the middle** | Cl2 | **Bromine**  **A poisonous red-brown substance that is one of only 2 liquids in the periodic table of elements** | **Element** |
| **Two chlorine atoms bonded together** | SO2 | **Methane**  **A colourless gas that is found in the fossil fuel called natural gas** | **Element** |
| **Two oxygen atoms bonded to a sulfur atom in the middle** | CH4 | **Sugar**  **A white solid that is made when plants convert light energy into chemical energy** | **Element** |

Extension:

**Using the textbook and what you know draw a picture of the structures of each of these molecules (water is at the top of the page).**