

## Atoms, elements and compounds

- Which of these is the smallest particle?
    - An atom
    - A molecule
    - A speck of dust
  - Which of these is the correct symbol for magnesium?
    - MG
    - mg
    - Mg
  - Which statement about atoms and molecules is correct?
    - Elements always exist as separate atoms
    - Elements always exist as pairs of atoms called molecules
    - Elements and compounds can exist as molecules
  - How many different atoms are there in a compound?
    - One
    - Always two
    - Two or more
  - Approximately how many elements are there?
    - 100
    - 4
    - 1,000,000
  - Which one is a compound?
    - Water
    - Hydrogen
    - Helium
  - Which of these contains two carbon atoms and six hydrogen atoms?
    - CH<sub>4</sub>
    - C<sub>2</sub>H<sub>6</sub>
    - C<sub>2</sub>H<sub>4</sub>
  - Which of these contains four hydrogen atoms?
    - CH<sub>3</sub>OH
    - H<sub>2</sub>O
    - H<sub>2</sub>O<sub>2</sub>
  - How many atoms are there in total in a molecule of sulfur trioxide, SO<sub>3</sub>?
    - Two
    - Three
    - Four
  - Why does air not have a definite formula?
    - It contains different amounts of water depending on where you are
    - It depends on the temperature
    - It is not a compound
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