This crossword puzzle is to test your knowledge of chemical formula.

To answer each clue you must decide the number of atoms or elements present in the chemical formula of a compound.

The answer to each clue is a number between two and ten.

By the side of each clue write the chemical formula of the compound in question.

Across

1. Number of atoms in iron (III) chloride .....

2. Number of elements in glucose .....

3. Number of atoms in ethanol .....

4. Number of atoms in ethane .....

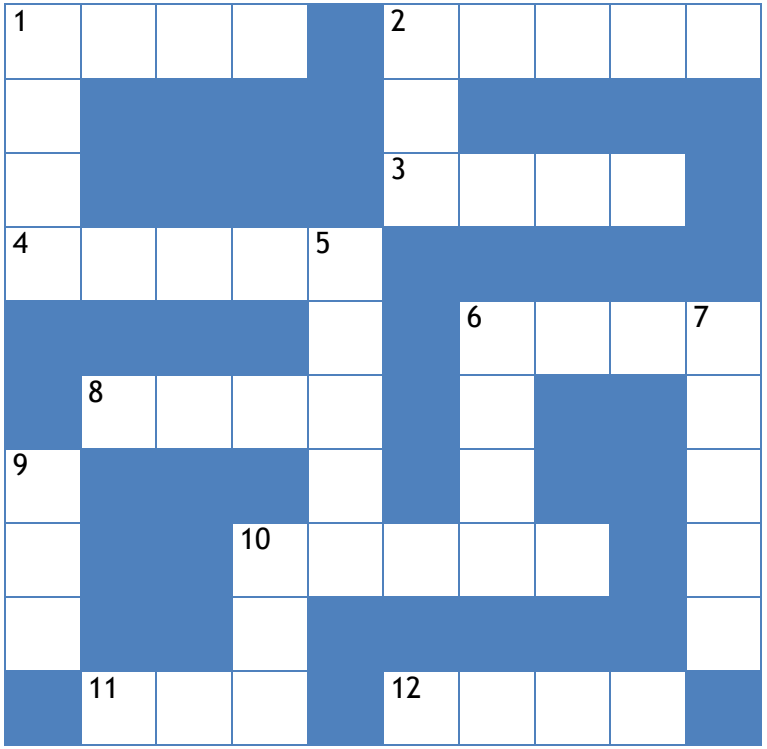
6. Number of atoms in iron (III) oxide .....

8. Number of elements in calcium hydrogen carbonate .....

10. Number of atoms in aluminium hydroxide .....

11. Number of atoms in methanol .....

12. Number of atoms in ammonia .....



Down

1. Number of atoms in calcium hydroxide .....

2. Number of atoms in **two** molecules of methane .....

5. Number of elements in ethanoic acid .....

6. Number of atoms in copper (II) hydroxide .....

7. Number of atoms in ethanoic acid .....

9. Number of elements in butane.....

10. Number of atoms in potassium carbonate .....

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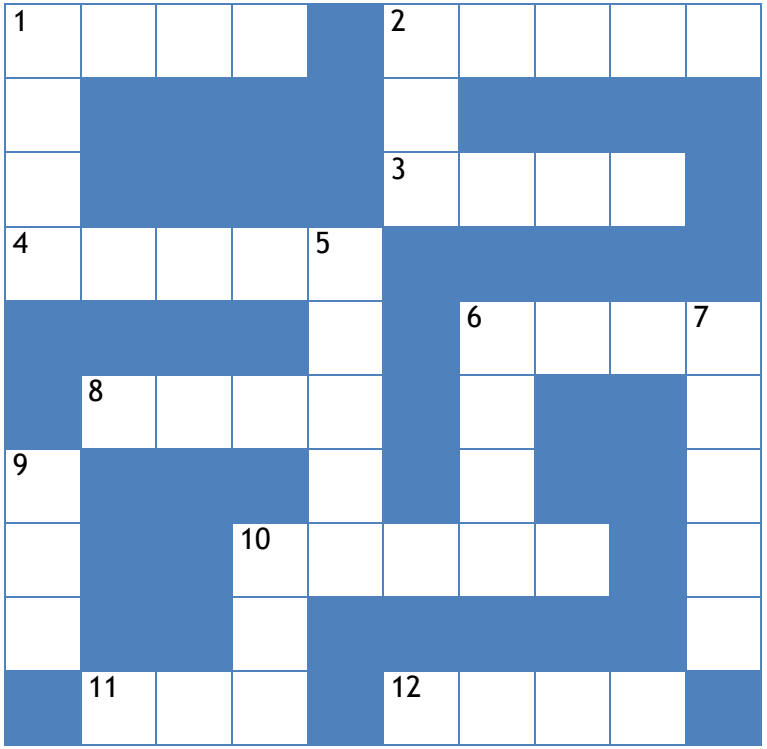

Across

1. Number of atoms in iron (III) chloride, $FeCl_3$

2. Number of elements in glucose, $C_6H_{12}O_6$

3. Number of atoms in ethanol, C_2H_5OH

4. Number of atoms in ethane, C_2H_6

6. Number of atoms in iron (III) oxide, Fe_2O_3

8. Number of elements in calcium hydrogen carbonate, $Ca(HCO_3)_2$

10. Number of atoms in aluminium hydroxide, $Al(OH)_3$

11. Number of atoms in methanol, CH_3OH

12. Number of atoms in ammonia, NH_3

Down

1. Number of atoms in calcium hydroxide, $Ca(OH)_2$

2. Number of atoms in **two** molecules of methane, CH_4

5. Number of elements in ethanoic acid, CH_3COOH

6. Number of atoms in copper (II) hydroxide, $Cu(OH)_2$

7. Number of atoms in ethanoic acid, CH_3COOH

9. Number of elements in butane, C_4H_{10}

10. Number of atoms in potassium carbonate, K_2CO_3

Answers and teaching notes

Across

1. iron (III) chloride $FeCl_3$

2. glucose $C_6H_{12}O_6$

3. ethanol C_2H_5OH

4. ethane C_2H_6

6. iron (III) oxide Fe_2O_3

8. calcium hydrogen carbonate $Ca(HCO_3)_2$

10. aluminium hydroxide $Al(OH)_3$

11. methanol CH_3OH

12. ammonia NH_3

Down

1. calcium hydroxide $Ca(OH)_2$

2. methane CH_4

5. ethanoic acid CH_3COOH

6. copper (II) hydroxide $Cu(OH)_2$

7. ethanoic acid CH_3COOH

9. butane C_4H_{10}

10. potassium carbonate K_2CO_3