# Fill in the blanks

CHANGE: The transformation from one _____ to another.

MATTER: Anything that has _____ and occupies space.

Three States of Matter: _____, _____ and ____.

# Fill in the blanks

The chemical formula of a molecule shows the _____ and _____ of atoms contained in it.

The _____ shows the number of _____ in the molecule of an element or compound.

| | SOLID | LIQUID | GAS |
|---|---|---|---|
| Arrangement of Particles | _____ are arranged in a _____ pattern | Particles are _____ to move in the liquid | Particles are free to move _____ |
| Distance between particles | _____ are _____ together | Particles are _____ close to one another | Particles are _____ apart |
| Forces of mutual attraction between particles | Very strong _____ of mutual _____ between particles | Forces of _____ attraction exist between particles | _____ forces of mutual attraction between particles |
| Motion of particles | Particles _____ about their _____ positions. | Particles vibrate, but can change their _____ | Particles move freely at high speeds, _____ any available |

| Chemical Formulae | Chemical names |
|---|---|
| 1. | Sucrose |
| 2. | Glucose |
| 3. $NaOH$ | |
| 4. $H_2SO_4$ | Sulfuric acid |
| 5. $KMnO_4$ | |
| 6. | Magnesium sulfate |
| 7. | Carbon tetrachloride |
| 8. $H_2O_2$ | |
| 9. $NH_3$ | |
| 10. | Sodium chloride |
| 11. $HCl$ | Hydrochloric acid |
| 12. $CH_4$ | |