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**Reactant**

A substance that reacts together with another substance to form products during a chemical reaction.

**Product**

A substance formed in a chemical reaction.

**Particle**

A general term for a small piece of matter. For example, protons, neutrons, electrons, atoms, ions or molecules.

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## Activation energy

The minimum amount of energy that colliding particles must have for them to react.

## Successful collision

A collision between reactant particles that has enough energy for a reaction to happen.

## Surface area

The total area of all sides on a 3D shape.

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**Burette**

Long glass tube with a tap and marked with volume measurements, used in titrations.

**Catalyst**

A substance that changes the rate of a chemical reaction without being changed by the reaction itself.

**Frequency**

The total number of times an event occurs.

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## Gradient

Another word for steepness. On a graph, the gradient is defined as being the change in the 'y' value divided by the change in the 'x' value. It defines how steep a line is.

## Tangent

A straight line that just touches a point on a curve. A tangent to a circle is perpendicular to the radius which meets the tangent.

## Enzyme

A protein which catalyses or speeds up a chemical reaction.



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## Reaction pathway

The sequence of reactions needed to produce a desired product from a particular set of raw materials.

## Reversible reaction

A chemical reaction in which the products can change back into the reactants.

## Equilibrium

In chemical reactions, a situation where the forward and backward reactions happen at the same rate, and the concentrations of the substances stay the same.

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