

Larger version cards

**Chemical reactions are important
in biological systems**

**Chemical reactions can be used
as energy sources**

**Chemical reactions are used
to make new materials**

enzymes
glucose → carbon dioxide + water

Plants use energy from the sun
to convert water and carbon dioxide
into glucose and oxygen.
This process is known as photosynthesis

haemoglobin + oxygen \rightarrow oxyhaemoglobin

To make a moulded item out of polyurethane,
the two liquid components
(polyisocyanate and polyol)
are mixed together
in exactly the right masses.
The exothermic reaction takes a minute.

$\text{Mg} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$



n (ethene) \rightarrow polyethene

octane + oxygen \rightarrow carbon dioxide + water

1,2-diaminohexane + hexanedioic acid \rightarrow nylon-6,6

