

Keywords: Spring 2

Science

Topic Title:

Introduction to the topic: In chemistry we will be delving into the depths of chemical reactions, in particular acids, alkalis and metals. We will also be exploring how energy changes are associated with particular chemical reactions.

What lessons will you cover during the topic?

Chemical Changes – reactions of acids, alkalis and the synthesis of salts. Electrolysis. Exothermic, endothermic reactions.

Keyword	Definition
Acid	pH lower than 7. Acidity is caused by a high concentration of hydrogen ions.
Activation energy	The minimum amount of energy that colliding particles must have for them to react.
Alkali	pH higher than 7. Caused by hydroxide ions.
Endothermic	Reaction in which energy is taken in. A temperature decrease will be observed.
Exothermic	Reaction in which energy is released to the surroundings. A temperature increase will be observed.
Neutralisation	The reaction between an acid and a base to form a salt + water.
Thermal decomposition	Reaction where a compound breaks down to form two or more substances when it is heated.
Combustion	The process of burning, reaction with oxygen.