

# Revision Topics Year 8

If you can spend just 20 minutes every evening revising the topics below you could see a 20% improvement in your exam results.

What will you need:

A revision guide (if you don't have one buy one), access to the internet would be an advantage, a couple of sites to try are BBC Bitesize KS3 science and scibermonkey but there are loads of others.

How to do it:

You may want to make a revision timetable i.e. 2 sessions on Acids & alkalis 4 sessions on rocks...

Just reading will help but it is not the best use of your brain, it is better to:

- Complete questions from a revision guide or internet
- Try to write things down in your own words
- Draw labelled diagrams from memory
- Use bright colours to make your revision notes & diagrams stand out
- Explain the science you are revising to friends & family, for instance can you explain to someone what refraction of light is all about.

**Remember to take a break and do not leave it to the last minute. Good luck.**

Why don't you tick them off when you have done each topic?

## Acids & Alkalis

**pH table, neutralisation, types of indicator.**

## Solar system & beyond

**Order of the planets, day & night, sunrise, gravity.**

## Food & digestion

**7 types of nutrient & their uses in the body, starch test, process of digestion.**

## Cells

**Animal & plant cell differences, role of the different parts of the cell, specialised cells.**

## Reproduction

**Fertilisation, anatomy of male & female sex organs, foetal development, placenta, umbilical cord, amniotic fluid, birth.**

## Respiration

Anatomy of the lungs, specialisations of the alveoli, gas exchange at the alveoli and cells.

## Rocks & weathering

Types of weathering, erosion, formation of sedimentary, igneous & metamorphic rock types, characteristics of different rock types, fossil formation.

## Magnets & electromagnets

Magnetic elements, poles of a magnet, magnetic fields, solenoids, increasing the strength of an electromagnet, permanent & non-permanent magnetic materials.

## Elements & compounds

Periodic table, groups, periods, element symbols, naming simple familiar compounds (CO<sub>2</sub>, H<sub>2</sub>O etc), what a compound is, what a mixture is.

## Light

Reflection, refraction, colour & coloured filters.

## Forces

Types of force, surface & friction.

## Classification, inheritance & environment

Vertebrates & invertebrates, types of vertebrate, inherited & environmental variation, predators, prey & camouflage, population graphs.

Meaning of; carnivore, herbivore, primary consumer, secondary consumer, top consumer. Food chains & webs.

## Graphs, evaluation & experimental work

Know where the independent & dependent variables go in a table and on a graph.

Can draw a straight line & a curve of best-fit.

Know how to make a test more reliable.

How to carry out fair testing