

# AQA A-Level Biology Revision Courses

## EACH COURSE IS COVERED IN 1 DAY

### Course 1- Biological molecules & Cells

Monomers & Polymers
Carbohydrates, Lipids, Proteins
Enzymes
Nucleic acids- DNA,RNA
ATP
Water & Inorganic ions
Cell structure
Cell division- meiosis, mitosis
Transport across cell membranes
Immune system

### Course 2 -Exchange & transport Genetic code, variations & diversity

Surface area to volume ratio
Gas exchange
Digestion & absorption
Mass transport- animals & plants
DNA, genes, chromosomes
DNA & protein synthesis
Gene mutations
Genetic diversity & adaptation
Species & taxonomy
Biodiversity within a community & investigating diversity

### Course 3 - Energy transfers in and between organisms

Phoyosynthesis
Respiration
Energy & Ecosystems
Nutrient cycles

### Course 4 - Organisms respond to changes in their internal & external environment

Stimuli
Nervous coordination
Skeletal muscle stimulation
Homeostasis

**Course 5 - Genetics , populations, evolution and ecosystems**

Inheritance
Population
Evolution & speciation
Population in ecosystems

**Course 6 - The control of gene expression**

Gene mutation
Stem cells
Regulation of transcription & translation
Gene expression & cancer
Using genome projects
Gene technologies