

CHANGES IN O-LEVEL SCIENCE SYLLABUSES

Are you up-to-date with the latest O-Level Science syllabuses coming into effect this year?

The O-Level Science syllabuses are revised once every few years to ensure relevance. Outdated learning objectives are removed while new ones are added to help students keep up with the changing times. The three tables below summarise the changes to the O-Level Physics, Biology, and Chemistry syllabus respectively.

Changes to O-Level Physics Syllabus

Topic	Content removed from old syllabus	Content added to new syllabus (effective 2023)
Energy	<ul style="list-style-type: none"> Energy conversion e.g., In an object falling from a height, gravitational potential energy is converted to kinetic energy. 	<ul style="list-style-type: none"> Energy stores and transfers e.g., In an object falling from a height, energy in the gravitational potential store is transferred to the kinetic store mechanically.
Thermal Processes and Thermal Properties of Matter	<ul style="list-style-type: none"> Thermal energy/heat is a form of energy. 	<ul style="list-style-type: none"> Thermal energy/heat is obsolete and is replaced with energy transfer by heating.
Temperature	<ul style="list-style-type: none"> Entire topic removed 	-
Radioactivity	-	<ul style="list-style-type: none"> New topic added

Changes to O-Level Biology Syllabus

Topic	Content removed from old syllabus	Content added to new syllabus (effective 2023)
Cell Structure and Organisation	<ul style="list-style-type: none"> Tissues and organs 	<ul style="list-style-type: none"> Muscle cell has many mitochondria to supply more energy.
Biological Molecules	<ul style="list-style-type: none"> Water and living organisms 	<ul style="list-style-type: none"> Roles of carbohydrates, fats, and proteins in living organisms Cellulose, starch from glucose
Nutrition in Humans	<ul style="list-style-type: none"> Breakdown of red blood cells 	<ul style="list-style-type: none"> Physical digestion
Nutrition and Transport in Flowering Plants	-	<ul style="list-style-type: none"> Dependency of life on photosynthesis
Organisms and Their Environment	-	<ul style="list-style-type: none"> Global warming
Infectious Diseases in Humans	-	<ul style="list-style-type: none"> New topic added

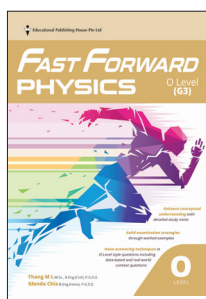


Changes to O-Level Chemistry Syllabus

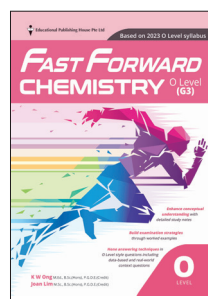
Topic	Content removed from old syllabus	Content added to new syllabus (effective 2023)
Organic Chemistry	<ul style="list-style-type: none"> Fractions of crude oil and their uses Uses of ethanol and esters 	<ul style="list-style-type: none"> Biofuel as a renewable and more environmentally sustainable alternative to crude oil Deduce the name and formula of an ester Physical and chemical methods of recycling plastics Depolymerisation Issues of recycling plastics
Experimental Chemistry	-	<ul style="list-style-type: none"> Specific drying agents such as calcium oxide
Chemical Calculations	-	<ul style="list-style-type: none"> Mole in terms of the Avogadro constant

The Particulate Nature of Matter	<ul style="list-style-type: none"> Deduce formulae of ionic compounds from their lattice structures 	-
Acids, Bases, and Salts	<ul style="list-style-type: none"> Uses of sulfuric acid Essential conditions for Haber process Displacement of ammonia from its salts 	-
Metals	<ul style="list-style-type: none"> Metal ores as a finite resource and issues of recycling metals Essential reactions in the blast furnace High/low carbon steels and mild steel 	-

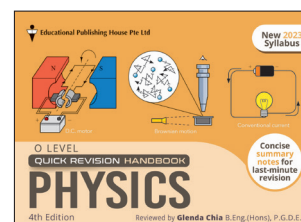
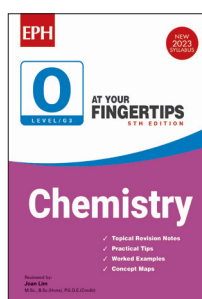
By keeping abreast of the latest revisions to the O-Level Science syllabuses, students will thus be able to streamline their revision process and maximise study efficacy to ace in the national exams.



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