

Science mock exams 2022 - Topic list

Trilogy higher

Biology	Chemistry	Physics
<ul style="list-style-type: none">• Diseases caused by bacteria• Antibiotics• Parts of blood• Differentiation• Mitosis and the cell cycle• Types of enzymes• Optimum conditions for enzymes• Denaturing of enzymes• Testing for starch• Photosynthesis• Investigating how colour of light affects the rate of photosynthesis• Cancer• Diseases affecting the heart• Biological and mechanical heart treatments• 	<ul style="list-style-type: none">• Reaction of carbonates with acid• Electrolysis of metal salts• Finding the reactivity of different metals using temperature change• Properties of Group 7 elements• Nanoparticles and their properties• Properties of alloys• Structure of polymers• Covalent bonding• Strong acids and weak acids• Calculating bond energy• Extracting metals using the reactivity series• Oxidation half equations• Calculations involving the Mole equation• Properties of metals• Properties of ionic compounds	<ul style="list-style-type: none">• Parts of the National Grid• Finding specific heat capacity of different materials• Calculating power• Energy transfers involving gravitational potential energy (GPE), elastic potential energy, and thermal energy store of the surroundings• Calculations involving the elastic potential energy equation• Calculating uncertainty• Factors affecting gas pressure• Component symbols• Calculating potential difference• How atoms produce electromagnetic waves• Properties of nuclear radiation• Alpha decay equations• Half-life