

Required practical in science exams

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| <p>Biology paper 1</p> <ul style="list-style-type: none"> Using a light microscope and calculating magnification Investigating osmosis in plant tissues at different concentrations Food tests for carbohydrates, lipids, proteins and sugars Investigating the effect of pH on the enzyme amylase Investigating the effect of light intensity on the rate of photosynthesis <p>Single science</p> <ul style="list-style-type: none"> Investigating the effects of antiseptics or antibiotics on bacteria using zones of inhibition | <p>Chemistry paper 1</p> <ul style="list-style-type: none"> Preparing a soluble salt from an insoluble oxide or carbonate Aqueous electrolysis Investigate variables that effect temperature changes e.g acid plus metal, carbonate, alkalis. <p>Single science</p> <ul style="list-style-type: none"> Determination of reacting volume or concentration between an acid and an alkali using titration | <p>Physics paper 1</p> <ul style="list-style-type: none"> Determining the specific heat capacity of a solid or liquid Using circuit diagrams to test for factors effecting resistance in circuits IV characteristic for the filament lamp, diode and fixed resistor Identifying density of regular and irregular solids and liquids Investigating the relationship between force and extension of a spring Investigating the effect of force and mass on acceleration (Newton's 2nd law) <p>Single science</p> <ul style="list-style-type: none"> Investigate the effectiveness of different materials as thermal insulators |
| <p>Biology paper 2</p> <ul style="list-style-type: none"> Plan and carry out an investigation into human reaction time. Measure population size in a habitat using sampling techniques- quadrats and transect lines <p>Single science</p> <ul style="list-style-type: none"> Investigate the effect of light or gravity on newly germinated seedlings Investigate the effect of temperature on the rate of decay for fresh milk by measuring pH change | <p>Chemistry paper 2</p> <ul style="list-style-type: none"> Investigate rate of reaction measuring volume of gas, mass lost, colour change or turbidity Chromatography Analysis of water using pH testing, dissolved solid testing and distillation <p>Single science</p> <ul style="list-style-type: none"> Using chemical analysis to identify ions in a compound – flame tests, sodium hydroxide tests, sulphate tests, halide tests | <p>Physics paper 2</p> <ul style="list-style-type: none"> Using the ripple tank to measure frequency, wavelength and wave speed Investigating how the infra-red absorbed or emitted depends on the surface of the object <p>Single science</p> <ul style="list-style-type: none"> Investigating reflection and refraction |