

Required practical in science exams

<p>Biology paper 1</p> <ul style="list-style-type: none">Using a light microscope and calculating magnificationInvestigating osmosis in plant tissues at different concentrationsFood tests for carbohydrates, lipids, proteins and sugarsInvestigating the effect of pH on the enzyme amylaseInvestigating 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 carbonateAqueous electrolysisInvestigate 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 liquidUsing circuit diagrams to test for factors effecting resistance in circuitsIV characteristic for the filament lamp, diode and fixed resistorIdentifying density of regular and irregular solids and liquids <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 seedlingsInvestigate 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 turbidityChromatographyAnalysis 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">Investigating the effect of force and mass on acceleration (Newton's 2nd law)Using the ripple tank to measure frequency, wavelength and wave speedInvestigating how the infra-red absorbed or emitted depends on the surface of the objectInvestigating the relationship between force and extension of a spring <p>Single science</p> <ul style="list-style-type: none">Investigating reflection