Kingsmead
Achieving through Caring

Progress Overview
Year 7 Science

Create hypothesise formulate design imagine compose develop improve	• Plan an investigation into how temperature affects rate of dissolving. • Formulate the law of reflection based on experimental evidence. • Develop an understanding of chemical equations using molymods. • Imagine changes of state and chemical reactions in terms of particle theory.
Evaluate recommend persuade debate justify assess conclude determine	• Draw conclusions from results of investigations. • Evaluate the effectiveness of different pH indicators. • Carry out risk assessments when planning investigations.
Analyse infer research investigate question appraise examine prioritise organise	• Investigate factors affecting; friction, bouncing balls and indigestion remedies. • Investigate the interaction of light of glass surfaces. • Research conditions on different planets of the Solar System. • Examine and interpret microscope slides.
Apply demonstrate manipulate calculate practise identify use	• Apply knowledge of particles to explain changes of state. • Calculate resultant forces using force diagrams. • Calculate the speed of sound experimentally. • Practice making microscope slides to observe plant and animal cells.
Understand explain interpret give examples estimate illustrate	• Interpret data in tabular and graphical form. • Interpret particle diagrams showing states of matter, elements and compounds. • Illustrate, using scientific diagrams, how to set up apparatus to carry out investigations.
Remember list recognise define recall label	• List components of animal and plant cells. • Label force diagrams. • Recognise and label organs of the male and female reproductive systems.

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Progress Overview
Year 8 Science

Create hypothesise formulate design imagine compose develop improve	• Create a balanced diet. • Hypothesise the effect of changing the length of a pendulum on the period of its swing. • Imagine how a change in one trophic level will impact others in a food web.
Evaluate recommend persuade debate justify assess conclude determine	• Evaluate the benefits of renewable vs non-renewable energy sources. • Justify conclusions based on results. • Determine the reactivity of metals based on available evidence. • Determine the type of chemical reaction.
Analyse infer research investigate question appraise examine prioritise organise	• Investigate energy content of different foods. • Investigate the reactivity of different metals by observing their reactions with acids. • Organise organisms into food chains and food webs.
Apply demonstrate manipulate calculate practise identify use	• Calculate speed experimentally and from distance/time graphs. • Identify chemicals needed to carry out food tests. • Identify energy stores and transfers.
Understand explain interpret give examples estimate illustrate	• Interpret distance/time graphs. • Explain how mass is conserved in a reaction. • Estimate the number of organisms in a given area.
Remember list recognise define recall label	• Recall and use terminology of investigations. • Recognise reactants and products of reactions from word equations. • Recall and label diagram of the digestive system.