

NRC KEY STAGE 3 – SCIENCE CURRICULUM OVERVIEW

Term	Units	Content
Autumn 1	Particles in action	<ul style="list-style-type: none"> ▪ Identifying solids, liquids and gases ▪ Understanding the arrangement of particles ▪ How the particle model can be used to explain differences between solids, liquids and gases ▪ Identifying the three states of matter ▪ Gases in action ▪ Changing states ▪ Chromatography ▪ Distillation and evaporation
Autumn 2	Atoms and molecules	<ul style="list-style-type: none"> ▪ Atoms ▪ Protons, neutrons and electrons ▪ The Periodic table ▪ Recognising basic element symbols ▪ Exploring the characteristics of some elements ▪ Use the particle model to describe what happens when elements combine ▪ Grouping elements ▪ Molecules
Spring 1	The Human Body	<ul style="list-style-type: none"> ▪ Life processes ▪ Why we need food ▪ Types of nutrients ▪ Balanced diet ▪ What are RDA's ▪ Exercise and healthy living ▪ The heart ▪ Gaseous exchange ▪ Adverse health effects from alcohol and tobacco ▪ Skeleton ▪ Muscles ▪ Joints

Term	Units	Content
Spring 2	Practical investigations	<ul style="list-style-type: none"> ▪ Recognising significant variables in investigations ▪ Explaining why particular pieces of equipment are appropriate for the ideas under investigation ▪ Repeating sets of observations and selecting suitable ranges and intervals of data ▪ Interpret data in a variety of formats ▪ Drawing valid conclusions that utilise more than one piece of supporting evidence ▪ Evaluating the effectiveness of their working methods
Summer 1	Practical investigations	<ul style="list-style-type: none"> ▪ Recognising significant variables in investigations ▪ Explain why particular pieces of equipment are appropriate for the ideas under investigation ▪ Repeating sets of observations and selecting suitable ranges and intervals ▪ Interpret data in a variety of formats ▪ Drawing valid conclusions that utilise more than one piece of supporting evidence ▪ Evaluate the effectiveness of their working methods
Summer 2	Investigating scientific questions	<ul style="list-style-type: none"> ▪ Identify questions that are suitable for scientific enquiry ▪ Use a variety of strategies to answer scientific questions of different kinds ▪ plan and set targets for a piece of work ▪ Consider the strength of the evidence, or the quality of the product, in relation to the question investigated ▪ Compare the different investigative methods used ▪ Work together in a group