Subject Area: Science – Year 9

Autumn 1 - Weeks 1-6 (6 weeks)	Autumn 2 - Weeks 8-15 (8 weeks)	Spring 1 – Weeks 16-20 (5 weeks)
Content : Reactivity Series	Content: Inheritance, variation and evolution	Content: Waves
Recap of the periodic table	Inheritance and DNA	Properties of a waves
Reactions of metals	 Variation and natural selection 	 Light waves- reflection and refraction
Reactivity series	 Extinction and biodiversity 	Sound waves and the ear
		Nuclear radiation
Assessment objectives This is the knowledge, application and skills assessed by	Assessment objectives This is the knowledge, application and skills assessed	Assessment objectives This is the knowledge, application and skills
the end of topic test:	by the end of topic test:	assessed by the end of topic test:
 Describe the structure of the periodic table. 	 Describe how characteristics are inherited from our 	 Describe the features of a wave and the effects of
 Describe how metals react with acids, water, oxygen 	parents,	changing pitch and amplitude
and carbonates.Recall the reactivity series for metals.	 Explain how variation is a result of both genetics and the environment. 	 Construct ray diagrams for reflection and refraction
 Explain displacement reactions. 	 Describe the work of scientists in the field of 	 Describe the different types of nuclear radiation
	genetics.	 Describe the uses and effects of nuclear
	 Describe the process of natural selection. 	radiation.
	 Explain how species can become extinct and the 	
	importance of maintaining biodiversity.	
End of topic test - Week 7 (6 weeks of learning and prep)	End of topic test week 8	End of topic test (in exam week)
Spring 2- Weeks 22 (end of spring 1) -27 (6 weeks)	Summer 1 – Weeks 28-32 (5 weeks)	Summer 2 – Weeks 34-40 (7 weeks)
Content: Skills	Content: Building blocks of life	Content: Building blocks of chemistry
 Equipment and measurements 	Cell organelles	Structure of the atom
 Producing and analysing data 	 Microscopes and the magnification equation 	The development of the periodic table
 Scientific methods and analysis 	 DNA, Chromosomes and cell division. 	Patterns and trends within the periodic table.
 Developing models and theories 	Cell transport	 Techniques for separating mixtures
Assessment objectives	Assessment objectives	Assessment objectives
This is the knowledge, application and skills assessed by the end of topic test:	This is the knowledge, application and skills assessed by the end of topic test:	This is the knowledge, application and skills assessed by the end of topic test:
 Identify risks and describe necessary precautions 	 Describe how cells are organised. 	 Describe how an atom is organised.
 Identify appropriate equipment for measuring and 	 Explain how to make a slide and how to use the 	 Explain how different techniques can be used to
minimising errors.	magnification equation	separate mixtures.
Durahana ang panglata ang panglantang patén si si si si	Line engly and an engeneration and the second fine time.	Demonstrate an awareness of how the periodic
 Produce appropriate graphs and interpret a variety of data formats. 	 Use, apply and re-arrange the magnification equation. 	
data formats.	equation.	table was developed and how it is organised
data formats.Use, apply and re-arrange equations.	equation.Convert between different units of measurement.	
data formats.	equation.Convert between different units of measurement.Compare and contrast light and electron	table was developed and how it is organised
data formats.Use, apply and re-arrange equations.Write that produce valid results and evaluate the work of other scientists.	 equation. Convert between different units of measurement. Compare and contrast light and electron microscopes. 	table was developed and how it is organised
data formats.Use, apply and re-arrange equations.Write that produce valid results and evaluate the work of	equation.Convert between different units of measurement.Compare and contrast light and electron	table was developed and how it is organised