



THE ARNEWOOD SCHOOL

KEY STAGE 3 SCIENCE



Implementation:

Students are supported through their transition from KS2 to 3 including getting their Bunsen burner licence when they visit us on their taster day in the summer. The first topics covered within science are the building blocks to help understand the trickier concepts they move onto.

Year 7:

Half term	Curriculum focus	Landmark assessment
Autumn 1	Students will study two topics this term specifically looking at cells and particles . Within Cells they will learn to use a microscope and develop their problem-solving skills within Particles.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Autumn 2	Students will study two topics this half term specifically looking at forces and the ecosystem . Students will develop their understanding of the environment around them and how forces effect their day tot day lives.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Spring 1	Students will study two topics this half term specifically looking at atoms and magnetism . Student will develop their knowledge of the basic building blocks of the world.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Spring 2	Students will study two topics this half term specifically looking at the skeleton and static electricity . This particularly allows students to develop their understanding of their body and develop their understanding of the world around them.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Summer 1	Students will study two topics this half term specifically looking at reproduction and separating substances . This will allow students to further look at their understanding of their body but also	Assessment is a formal exam at the end of the ½ term including long answers, short answers,





	develop their practical skills within chemistry.	multiple choice and calculations.
Summer 2	Students will study two topics this half term specifically looking at photosynthesis and gas exchange . This will further develop students understanding of their body works but also the origin of oxygen.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.

Co-Curricular: Students complete calculations throughout the course and there are links with Geography when looking at ecosystems, P.E. when looking at how the body works and PSHE when looking into reproduction.

Year 8:

Half term	Curriculum focus	Landmark assessment
Autumn 1	Students will study two topics this half term specifically looking at inheritance and energy and finish the term looking at careers within science. Students will learn where characteristics of animals have come from whilst also exploring how energy affects the world around us.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Autumn 2	Students will study three topics this half term specifically looking at electricity , chemical reactions and respiration . Students will study simple electric circuits, develop their understanding of respiration and start looking deeper into different types of chemical reaction.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Spring 1	Students will study two topics this half term specifically looking at Waves and continue their understanding of chemical reactions . Students will discover how waves work and how temperature is interwoven with chemical reactions.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Spring 2	Students will study two topics this half term specifically looking at Light and the Earth and Atmosphere . Students will discover	Assessment is a formal exam at the end of the ½ term including long





	that light also travels as wave and the composition of the earth and the atmosphere.	answers, short answers, multiple choice and calculations.
Summer 1	Students will study the topics moving things and materials and finish the term starting to look at fuels and nutrition . Students will look at the forces and calculations involved in objects moving and how different properties can be attributed to different types of material	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.
Summer 2	Students will finish the topics fuels and nutrition before moving on to looking at the topics pressure and drugs . Students will look at different forms of fuel for both the body and chemically and then discover key concepts about pressure and different forms of drugs.	Assessment is a formal exam at the end of the ½ term including long answers, short answers, multiple choice and calculations.

Co-Curricular: Students complete calculations throughout the course and there are links with Geography when looking at the earth and atmosphere, P.E. when looking at nutrition and PSHE when looking into drugs.

