BENSHAM MANOR School

Science Year 11 Entry Level Curriculum Map 2026-27

Topic Title	Topic overview	Knowledge and Skills	Assessment	Key words
Autumn Term **1) Science and the Universe**	This unit enables learners to explore themes connected with space and our Universe. ● Our Solar System. ● Types of galaxies. ● Electromagnetic spectrum ● Space exploration ● Factors that affect the surfaces of planets and moons.	● Describe the solar system using models. ● Define a galaxy and identify different types of galaxies. ● Define the electromagnetic spectrum. ● Name parts of the electromagnetic spectrum. ● Identify images of the sun using different parts of the electromagnetic spectrum. ● State advantages of using space-based telescopes over earth-based telescopes. ● Identify the essential parts of a spacesuit and describe how they keep an astronaut alive (e.g., providing oxygen, controlling temperature). ● Classify items astronauts can eat in space versus items that are unsafe or impractical (e.g., sticky foods vs. crumbly foods that create floating debris). ● Compare daily tasks—like washing, sleeping, and exercising—on Earth versus how astronauts perform them in microgravity. ● State how craters have formed on the moon and on planets ● Identify how different factors have affected the surface of planets and moons ● Investigating the factors that affect the formation of a crater.	Teacher assessment through a variety of activities - quizzes, word wall, games, questioning, role play, speaking activities, card sorts, photographs of learners carrying out activities, storyboards, presentations/posters, evaluation sheets and testing.	planets Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune dwarf planet asteroids orbit atmosphere model galaxy moon star sun comet satellite telescope Universe astronaut gravity crater
Spring Term + Summer Term	In this unit, students will learn all about forensics, exploring the role	● Forensic science - what is it?	Teacher assessment through a variety of activities -	crime scene. crime scene investigator (CSI)

2) Forensic Science	of forensic scientists and how evidence is gathered. They will practise securing crime scenes, analysing fingerprints, and testing chemical and biological evidence through hands-on lab work—including chromatography, hair and fibre analysis, and blood spatter patterns. To finish the unit, students will work together to process a mock crime scene, applying all their new skills to analyse the evidence, write a final report, and solve the crime.
	
	● Forensic Science
	● Forensic Scientists
	● Evidence
	● Crime scene
	● Prints found at a crime scene
	● Chemical and Biological evidence
	● Investigating and reporting
	● Mock crime scene
		● Forensic Scientists - Who are forensic scientists and what do they do? Types of forensic scientists.
		● Evidence - Types of evidence involved in forensics
		● Crime scene and fingerprinting
		  ○ Crime scene security and mapping
		  ○ Types of finger prints
		  ○ Fingerprint Pattern identification
		  ○ Dusting and lifting prints
		  ○ Shoe print impression analysis
		● Chemical and Biological evidence
		  ○ Ink chromatography
		  ○ Identifying unknown chemical substances.
		  ○ Hair and fibre microscope lab.
		  ○ Blood spatter drop angles.
		  ○ Height versus foot length profiling.
		● Final investigating and Reporting.
		  ○ Final evidence report and presentation.
		● Mock Crime Scene Investigation: Students use all the skills learned in this unit to gather and analyse evidence to solve a classroom crime.
			practicals, quizzes, word wall, games, questioning, role play, speaking activities, card sorts, photographs of learners carrying out activities, storyboards, presentations/posters, evaluation sheets and testing.	evidence
				witness
				victim
				forensic anthropologist
				forensic entomologist
				forensic odontologist
				forensic toxicologist
				forensic ballistics expert
				forensic pathologist
				digital forensics examiner
				fingerprints
				latent fingerprints
				fibres
				cast
				DNA
				residue
				analysis
				dusting.
				microscopy
				chromatography
				contamination