

## Year 11 Triple Science Curriculum Map

Month	Unit Title	Description
September	P8 Space	Pupils learn about the life cycle of a star and composition of our solar system and our galaxy. They then learn about motion of satellites and evidence supporting the Big Bang Theory.
September	C4 Chemical changes	Pupils study a range of chemical reactions including oxidation and reduction reactions, and electrolysis. They also learn about strong and weak acids.
October	C5 Energy changes	Pupils learn about the differences between exothermic and endothermic reactions.
October	P2 Electricity	Pupils recall their learning about electricity from year 10, before going on to study differences between series and parallel circuits, and new components such as LDRs and thermistors. Finally they learn about alternating and direct current and the National Grid.
November	P5 Forces and motion	Pupils recall what they learnt about forces and motion in year 9. They then go on to learn about Newton's three laws of motion, including investigating the relationship between force, mass and acceleration. Pupils then learn about momentum, before moving on to studying pressure. Lastly, they study forces around a turning point.
December	P6 Waves	Pupils study the differences between transverse and longitudinal waves, and the wave equation. They go on to study the electromagnetic spectrum. Pupils then learn about refraction and reflection of waves. They learn about the dangers of exposure to radiation and the heating effect of infrared. Finally they learn about lenses and optics.
January onwards	<b>REVISION</b>	