

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	Focus:	Energy and Energy Resources	Energy resources continued	Energy Transfer by Heating	Using Energy Resources	Using Energy resources	Using Energy resources
	Assessment:	Energy and energy Resources initial test 1	Energy resources interim test 2	Energy transfer by Heating test 1	Using energy resources test 1	Using energy Resources interim test 2	Using Energy Resources final test 3
Year 8	Focus:		Forces 2 Electromagnets 1 & 2	Electromagnets 1 & 2	Energy 2	Waves 1&2	
	Assessment:		Forces 2 Test	Electromagnets 1 & 2 Test	Energy 2 test	Waves 1&2 test	
Year 7	Focus:	Enquiry Processes	Forces 1	Forces 1	Energy 1	Electromagnets 1	Electromagnets 1
	Assessment:	Enquiry Processes Test		Forces 1 Test	Energy 1 Test		Electromagnets 1 Test

SMSC - Moral – road safety, speed, being a responsible driver, effects of human activity on others and the planet. The effects of human activity on the environment and the production of electricity on a global scale, global warming and pollution. Spiritual – Gravity, solar system, lightning, meteor showers, eclipses and rainbows. Social – practical work, demonstrations and teamwork, considering the safety of others. The effect of science on our lives. Medical uses of electricity eg. defibrillators.. Health issues with lifestyle and food consumption. Building alternative energy resources. Awareness of energy consumption and costs. Cultural – levels of technology in different countries. Cultural differences can influence the extent to which scientific ideas are accepted, used and valued. Key scientists involved in electrical discoveries throughout history.

Careers - Forces – Athlete / racing driver / race team member. Energy – Nutritionist / Electrician / Power station worker. Electromagnets – electrician / engineer. Waves – Musician / sound and lighting designer / audiologist / optician.

Enrichment - Stem Club, Teen Tech, British Science Week, Competitions.

British Values - In physics, some areas that encourage conversation regarding British Values include: speed and road safety and respect for other's safety, energy crisis and impact on humans and the environment.

Focus

Waves, Electromagnetism & Space

Energy & Energy Resources

Forces in Action

No Physics Taught/Assessed

Particles at Work

Exams & Revision

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	Focus:	Waves Light – Triple only	Magnetism	Revision	Required practical week & revision	Revision	
	Assessment:	Waves test Light test – Triple only	Magnetism test Pixl Mock 1		Pixl Mock 2		

SMSC - Social - practical work, demonstrations and teamwork, considering the safety of others. Moral – discussions of how electromagnetism exposure has been reported to cause illnesses. Spiritual – developing an understanding of things so small that we cannot see yet can observe the effects of, eg light and sound waves, Cultural – scientists from different cultures and how they contributed to the development of our understanding of waves, and how different countries use electromagnetism in different ways.

Careers - Waves – Sound engineer, musician, radiographer, seismologist, Light – optician, light designer, Electromagnetism – paleomagnetist, mechanical engineer, electrical engineer.

Enrichment - British Science Week, Competitions, CERN Trip, Science Live!

British Values - Discussion around events such as earthquakes or tidal waves and the effect on different countries, dangers of electromagnetic waves from space and an understanding of and respect towards differing views and beliefs surrounding these.

Year 10	Focus:	Electricity	Atomic Structure Extended for Triple Science students	Forces	Forces	Forces Extended for Triple Science students	Double: Energy Revision Triple: Space
	Assessment:	Electricity test	Atomic structure test	Forces test	Forces test	Forces test	End of Year 10 exam

SMSC - Social - practical work, demonstrations and teamwork, considering the safety of others. Moral – discussions of how radiation and nuclear energy has been used in history for both useful and harmful ways and the effects of this on humans. Spiritual – developing an understanding of things so small that we cannot see yet can observe the effects of, eg nuclear particles, and so big and far away, eg other solar systems. Cultural – scientists from different cultures and how they contributed to the development of electricity in history.

Careers - Electricity – electrician, project manager, safety specialist. Radioactivity – nuclear power station engineer, medical physicist, radiographer. Forces – athlete, road safety developer, driving instructor. Space – astronaut, astronomer, aerospace technician, satellite engineer.

Enrichment - British Science Week, Competitions, CERN Trip, Science Live!

British Values - Respect for differing beliefs regarding the beginning of the universe, conversation about electrical safety in different areas of the world and impact of nuclear power and weapons on international law.

Focus		
Waves, Electromagnetism & Space	Energy & Energy Resources	Forces in Action
No Physics Taught/Assessed	Particles at Work	Exams & Revision