

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	Focus:	Introduction to GCSE Cell Biology	Cell Biology	Organisation	Organisation	Organisation	Organisation
	Assessment:		Cells test		Mid topic test		End of Organisation test End of Year 9 exam

SMSC - Spiritual – the wonder and beauty of nature from the smallest cells. Moral – respect and understanding during periods of change and the moral impact of human activity e.g. stem cell research. Social - practical work, demonstrations and teamwork, considering the safety of others. The effect of science on our lives e.g. medical imaging and treatment. Cultural – cultural difference can influence the extent to which variation is accepted. Cultural evolution of developments in science, eg understanding of diseases.

Careers - Cell biology – research biologist / DNA analyst / Stem cell researcher. Organisation – Gastroenterologist / food chemist / phlebotomist / ecologist.

Enrichment - Stem Club, Teen Tech, British Science Week, Competitions, Medical Mavericks, CERN Trip.

British Values - Areas that encourage conversation regarding British Values include democracy with DNA evidence in criminal cases and respect of differing views surrounding ethics with stem cell research.

Year 8	Focus:	Organisms 2	Ecosystems 2	Genes 2			
	Assessment:	Organisms 2 test	Ecosystems 2 Test	Genes 2 test			

SMSC - Spiritual - appreciation of the scale of living things from the smallest micro-organism to the largest tree. Moral – Science can be both harmful and beneficial, eg bioaccumulation of chemicals and the effects on food chains. Social - practical work, demonstrations and teamwork, considering the safety of others. The effect of science on our lives e.g. medical imaging, climate change. Cultural – cultural difference can influence the extent to which variation is accepted. Cultural evolution of certain diseases, e.g. Sickle cell anemia.

Careers - Organisms - Medical / healthcare. Radiographer. Physiotherapist. Research biologist. Ecosystems – Farming and agriculture, ecologist, marine biologist.

Genes – Healthcare, midwife, research biologist.

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

British Values In Biology, areas that encourage conversation regarding British Values include: stem cell research, food chains, respect for environment and animals, variation between humans.

Year 7	Focus:	Enquiry processes Organisms 1		Ecosystems 1	Genes 1	Genes 1	
	Assessment:	Enquiry Processes Test, Organisms 1 Test		Ecosystems 1 Test	Genes 1 Test		

SMSC - Spiritual - appreciation of the scale of living things from the smallest micro-organism to the largest tree. Moral – Science can be both harmful and beneficial, eg bioaccumulation of chemicals and the effects on food chains. Social - practical work, demonstrations and teamwork, considering the safety of others. The effect of science on our lives e.g. medical imaging, climate change. Cultural – cultural difference can influence the extent to which variation is accepted. Cultural evolution of certain diseases, e.g. Sickle cell anemia.

Careers - Organisms - Medical / healthcare. Radiographer. Physiotherapist. Research biologist. Ecosystems – Farming and agriculture, ecologist, marine biologist. Genes – Healthcare, midwife, research biologist.

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

British Values - Stem cell research, food chains, respect for environment and animals and variation between humans.

Focus		
Human Biology	Cells & Organs	Bioenergetics
Exams & Revision	Genetics	Ecosystems

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	Focus:	Homeostasis & Response	Reproduction, evolution and inheritance	Reproduction, evolution and inheritance	Required practical week & Revision	Revision	
	Assessment:	Mock 1		Mock 2			

SMSC - Spiritual – the wonder and beauty of nature of humans, animals and plants. Social - practical work, demonstrations and teamwork, considering the safety of others. Moral – respect and understanding of the effect of science on our lives eg, knowledge of inherited diseases and treatments. Cultural – cultural difference can influence the extent to which variation is accepted. Difference in beliefs around religion and evolution.

Careers - Homeostasis & response – diabetes nurse, optician, fertility researcher, Inheritance, variation & evolution – stem cell research, geneticist.

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

British Values - Areas that encourage conversation regarding British Values include showing respect to one another when discussing evolution vs religious viewpoints and being tolerant of beliefs different to our own.

Year 10	Focus:	Cell division and Organisation	Organisation	Infection & Response	Infection & Response	Bioenergetics	Bioenergetics and start Homeostasis
	Assessment:	Cells test	Organisation End of topic test	Infection & Response Test	Infection & Response Test		Bioenergetics Test

SMSC - Spiritual – the wonder and beauty of nature from the smallest cells to the largest of organisms. Moral – respect and understanding during periods of change and the moral impact of human activity e.g. vaccinations and treatments. Social - practical work, demonstrations and teamwork, considering the safety of others. The effect of science on our lives eg smoking, diet and drug use. Cultural – cultural difference can influence the extent to which variation is accepted. Cultural evolution of developments in science, eg understanding of diseases and treatment.

Careers - Cell division – stem cell researcher. Organisation – medical imager, dietician, personal trainer. Infection and response - cancer treatment research, vaccination developer, Bioenergetics - ecologist.

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

British Values - Areas that encourage conversation regarding British Values include: respect of differing opinions about vaccinations e.g Covid 19.

Focus	
Human Biology	Cells & Organs
Exams & Revision	