



[OAT]
Ormiston Academies Trust
ACHIEVING MORE TOGETHER

2023-
2024

Brownhills Ormiston Academy Science curriculum map



Brownhills Ormiston Academy Science curriculum map.



Year 7 Science

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
An introduction to the scientific method.	Building blocks of life – Animal cells	The human body – The breathing system	Building blocks of life – Human reproduction	Chemical reactions – The pH scale	Behaviour of energy - The principles of energy
Behaviour of matter – the particle model	Building blocks of matter – The atom	Chemical reactions – Type of reactions	The human body - Health and Disease	Our Earth – Our atmosphere	Building blocks of life – Cellular respiration
Objects effects on other objects – changing shape	Building blocks of matter – Changes of state	Our Earth - The rock and water cycle	Behaviour of matter - Purity	The human body – Nutrition and Digestion	Behaviour of Energy - Waves
				Behaviour of energy – Energy in our home	

Year 8 Science

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Objects effect on other objects - Changing shape	Chemical reactions - The pH scale	Building blocks of life - Cellular respiration	Interaction of life - Photosynthesis	Interaction of life - Interdependence	Chemical reactions - The reactivity series
The human body - The breathing system	Our Earth - our atmosphere	Behaviour of energy - Temperature or heat	Objects effect on other objects - Electricity	Behaviour of matter - Periodic table	Behaviour of energy - Light
The human body - Health and disease	The human body - Nutrition and Digestion	Objects effecting other objects – Forces and motion	Objects effect on other objects - Magnetism	Objects effect on other objects - Pressure	(Building blocks of life - inheritance and evolution)

Brownhills Ormiston Academy Science curriculum map.

Year 9 Science



Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Broader curriculum coverage: Biology – The body Chemistry – Material science Physics – Power of particles		Broader curriculum coverage: Biology – Inheritance Chemistry – Forensic science Physics – Space		Fundamental – preparing for KS4 Biology – cell biology Chemistry – atomic structure Physics- quantifying waves	

Year 10 Science

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Biology – enzymes and digestion Chemistry – Chemical changes (reactions of acids) Physics – Force basics and elasticity Biology – Transport in plants and animals Chemistry – chemical analysis Chemistry – Bonding, structure and properties		Biology – Infection and response Chemistry – Bonding, structure and properties Physics – Energy Biology – Non-communicable diseases Chemistry – Chemical changes 2 (redox reactions) Physics – Forces in action Biology - Bioenergetics		Chemistry – Quantitative chemistry Physics – Forces in action Biology – Bioenergetics Chemistry – Quantitative chemistry Physics – Forces in action Biology – Homeostasis and response Chemistry – Organic chemistry Physics – Electricity (General science lesson – Ecology)	

Year 11 Science

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Biology - Genome, Nerves, Hormones, inheritance, sampling, cycling materials, maths skills for biology. PPE Chemistry – Using resources, chemical analysis, organic chemistry, rates of reaction		PPE diagnosis and feedback Paper 1 preparation Maths skills and disciplinary skills consolidation. PPE2		QLA reteach with new application	

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PPE Physics – Electromagnets and magnetism, Particle model PPE		
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