Barnsley Academy – (Year 11) (Combined science) Curriculum Overview 2023-24

	Autumn Term			Spring Term			Summer Term	
	Class Focus	Homework		Class Focus	Homework		Class Focus	Homework
Week 1	B5 – Nervous system Reflex arc Reaction time RP Hormones and glands		Week 1	B7 Communities Biotic and abiotic Adaptations Sampling Carbon and water cycle		Week 1		
Week 2	Blood glucose Diabetes Menstrual cycle Contraception Fertility treatment (HT)		Week 2	Impact on environment Biodiversity EOUA P7 magnetism		Week 2		
Week 3	Plant hormones CTG B5 – EOUA C7 crude oil and alkanes		Week 3	Magnetic fields Electromagnets Motor effect (HT) Electric motors (HT)		Week 3		
Week 4	Fractional distillation and cracking Uses of alkenes EOUA		Week 4	C10 use of earths resources Lifecycle assessment Phytomining (HT) Potable water Wastewater		Week 4		
Week 5	P5 force interactions Weight mass gravity Resultant force Work done		Week 5	Recap C6 (done in Y10) Start revision cycle after February half term for paper 1.		Week 5		
Week 6	Forces and elasticity 1 Forces and elasticity 2 Speed, distance time Acceleration		Week 6			Week 6		
Week 7	Velocity Motion calculations Terminal velocity Newtons second law		Week 7			Week 7		
Week 8	Newtons second law RP Force and breaking Momentum (HT) CTG P5 EOUA		Week 8			Week 8		
Week 9	B6 cell division Sexual and asexual DNA and genome Inheritance Inherited disorders		Week 9			Week 9		
Week 10	Sex and family trees Variation and evolution Resistant bacteria Evidence for evolution Selective breeding		Week 10			Week 10		
Week 11	Genetic engineering Classification CTG					Week 11		

	B6 EOUA					
Week 12	C8 pure substance and formulations Chromatography Gas tests EOUA				Week 12	
Week 13	P6 waves Wave calc Speed of sound Speed in a liquid Speed in a solid				Week 13	
Week 14	EM waves Infrared radiation CTG EOUA				Week 14	
Week 15	C9 Earths atmosphere Greenhouse effect Climate change Pollutants EOUA					
Assessment			Assessment		Assessment	