

How should I use this precision plan to revise?

Either before or after the lesson, search for the topic on your chosen revision platform under the “AQA GCSE Biology/Chemistry/Physics” section. That could be:

- [Cognito on YouTube](#)
- [Cognito website](#)
- [BBC Bitesize](#)
- [The FROG command centre revision page](#)
- Your revision guide

Use this to add the key knowledge that you need to know to your revision homework sheet. You could then make flashcards, with a question on one side and an answer on the other and get someone to test you. Speak to a teacher if you are unsure.

Topic	Lesson title	Assessment
B6 Inheritance and variation	Sexual and asexual reproduction	
	Comparing sexual and asexual reproduction	
	Meiosis	
	DNA & the genome	
	DNA structure	
	Genetic inheritance	
	Inherited disorders	
	Sex determination	
	Variation	
	Evolution	
	Selective breeding	
	Genetic engineering	
	Cloning	
	Theory of evolution	
	Speciation	
	Understanding of genetics	
	Evidence of evolution	
	Fossils	
	Extinction	
	Resistance bacteria	
	Classification	VIP test
Assessment on B6 Inheritance and variation		

C6 Rate and extent of chemical change	Factors affecting the rate of chemical reactions (concentration, temperature, surface area) (required practical)	
	Collision theory and activation energy	
	Calculating rates of reaction	
	Catalysts	
	Reversible reactions	
	Equilibrium in chemical reactions	
	Effect of changing conditions on equilibrium (concentration, temperature, pressure)	VIP test
Assessment on C6 Rate and extent of chemical change		
P5 Forces	Scalar and vector quantities	
	Contact and non-contact forces	
	Gravity vs weight	
	Resultant forces	
	Work done and energy transfer	
	Forces and elasticity	
	Moments, levers and gears	
	Pressure in fluids	
	Atmospheric pressure	
	Distance and displacement	
	Speed	
	Velocity	
	Distance-time graphs	
	Acceleration (required practical)	
	Terminal velocity	
	Newton's 1 st Law	
	Newton's 2 nd Law	
	Newton's 3 rd Law	
	Stopping distance	
	Reaction time (required practical)	
	Factors affecting braking distance	
	Momentum	
	Conservation of momentum	
	Changes in momentum	VIP test
Assessment on P5 Forces		

Topic	Lesson title	Assessment
B7 Ecology	Communities – interdependence and competition	
	Biotic and abiotic factors affecting communities	
	Adaptations	
	Food chains	
	Predator-prey cycles	
	Population sampling techniques	
	Measuring population size to investigate the effect of a factor on distribution (required practical)	
	The carbon cycle	
	The water cycle	
	Decomposition	
	Effect of temperature on milk decay (required practical)	
	Impacts of environmental change	
	Biodiversity and maintaining biodiversity	
	Waste management	
	Land use	
	Deforestation	
	Global warming	
	Trophic levels	
	Pyramids of biomass and the transfer of biomass	
	Factors affecting food security	
Farming techniques – sustainable fisheries and the role of biotechnology	VIP test	
Assessment on B7 Ecology		
C7 Organic chemistry	Hydrocarbons – Crude oil and alkanes	
	The properties of hydrocarbons	
	Fractional distillation and petrochemicals	
	Cracking and alkenes	
	Reactions of alkenes	
	Alcohols	
	Carboxylic acids	
	Addition polymerisation	
	Condensation polymerisation	
	Amino acids	
Deoxyribonucleic acid (DNA)	VIP test	
Assessment on C7 Organic chemistry		

P6 Waves	Transverse and longitudinal waves	
	Properties of waves	
	Period = 1/frequency	
	Wave speed = frequency x wavelength	
	Sound waves	
	Investigating speed of sound	
	Reflection of waves and ray diagrams	
	The effect of type of surface on refraction (required practical)	
	Ultrasound and hearing	
	Waves for detection and exploration	
	Electromagnetic waves and the EM spectrum	
	Properties of EM waves	
	The effect of type of surface on infrared radiation absorption (required practical)	
	Sieverts	
	Uses and applications of EM waves	
	Lenses	
	Visible light	
	Black body radiation and perfect black bodies	VIP test
	Assessment on P6 Waves	