

Year 11 – AQA GCSE Combined Science: Trilogy – Precision plan – Term 1

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 Combined Science: Trilogy” 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.

11X2 & 11Y2 ONLY:

Topic	Lesson title	Assessment
B4 Bioenergetics	The photosynthesis reaction	
	Rate of photosynthesis (required practical)	
	Uses of glucose from photosynthesis	
	Aerobic and anaerobic respiration	
	Response to exercise of heart and lungs	
	Metabolism	VIP test
C4 Chemical change	Metal oxides	
	The reactivity series	
	Displacement reactions	
	Metal extraction	
	OILRIG	
	Reactions of acids with metals	
	REDOX reactions	
	Neutralisation (making salts)	
	Soluble salts (required practical)	
	Strong and weak acids	
	Electrolysis	
Half-equations	VIP test	

C5 Energy changes	Exothermic and endothermic reactions (Required practical)	
	Uses and applications of exothermic and endothermic reactions	
	Reaction profiles	
	Calculating energy changes during reactions	VIP test
P4 Atomic structure	Nuclear radiation and radioactive decay	
	Nuclear equations	
	Half life	
	Radioactive contamination vs irradiation	VIP test

ALL CLASSES:

Topic	Lesson title	Assessment
B5 Homeostasis and response	What is homeostasis?	
	The human nervous system	
	Reaction time (required practical)	
	The human endocrine system	
	Control of blood glucose	
	Hormones in the female reproductive system	
	Contraception	
	Treating infertility with hormones	
	Feedback systems and negative feedback	VIP test
Assessment on B5 Homeostasis and response		
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

Distance and displacement

Speed

Velocity

Distance-time graphs

Acceleration (required practical)

Newton's 1st Law

Newton's 2nd Law (required practical)

Newton's 3rd Law

Stopping distance

Reaction time (required practical)

Factors affecting braking distance

Momentum

Conservation of momentum

VIP test

Assessment on P5 Forces