Date	Unit	Section for revision	Revisi on book pages <i>CG</i> P	Time spent revising	Evidence in File	Issues identified	Action taken
	B6	B6a Photosynthesis , Biomass, cellulose. Chloroplast. endothermic reaction, food chain, gas exchange, glucose, guard cell, Lipid, palisade cell, photosynthesis, polymer, producer, protein, protist, respiration, starch, stoma, storage , organ, sucrose.	47				
	C13	Group 1 , alkali metals, group (chemistry), periodic table, reactivity Group 7 Bleach, diatomic, disinfectant, halide, halogen, salt	123- 124				
	Р7	Work and Power , how work done can be measured, calculate work done, define power, calculate power, learn formula, rearrange equation.	180				
	B6	B6b Factors that affect photosynthesis Concentration, direct proportion, inverse proportion, inverse square law, limiting factor, linear relationship, rate	48				
	C13	Halogen reactivity, displacement reaction, oxidation, oxidised, redox, reduced, reduction C13d Group O - inert, noble gas	125- 127				
	P8	Objects affecting each other , describe interactions between two objects, draw force diagrams to show all forces acting on objects, describe and calculate resultant forces, vector diagrams , use scale forces to find resultant forces, draw free body force diagrams, splitting a force into components.	181- 183				
	B6	B6c Absorbing water and mineral ions active transport, concentration gradient, diffusion, fluid, mineral ion, nitrate, osmosis, partially permeable, membrane, protein, root hair cell, wilt	49				

<i>C</i> 14	Rates of reaction, Factors affecting reaction rates,	128-	
	Investigating reaction rates, Product, rate, reactant, variable,	132	
	activation energy, endothermic, exothermic		
P9	P9a Electric Circuits , describe current, potential difference and	184-	
	resistance, Calculate total charge, identify circuit symbols, draw	185	
	series and parallel circuits and compare and contrast, measure		
	electrical current, describe the relationship between resistance,		
	potential difference and current, the effect of temperature on resistance.		
B6	B6d Transpiration and translocation companion cell, lignin,	50-51	
	phloem tissue, potometer, sieve tube/cell, translocation,		
	transpiration, xylem vessel/cell		
<i>C</i> 14	Catalysts and activation energy, active site, catalyst,	133	
	denatured, enzyme, protein, reaction profile, substrate		
P9	P9c Describe a coulomb, Calculate charge Q and rearrange formula,	184-	
	relationship between current and flow of charge, calculate energy	185	
	transferred and rearrange equation. P9d Resistance calculate		
	resistance and rearrange the equation, adding resistors in series		
	and parallel		
B7	B7a Hormones hormonal system, ovary, pancreas, pituitary gland,	52-53	
	sex hormone, target organ, testis, thyroid gland.		
	B7b Hormonal control of metabolic rate Adrenalin, fight-or-		
	flight response, glycogen, metabolic rate, negative feedback,		
	resting metabolic rate, thyroxine		
<i>C</i> 15	Exothermic and endothermic reactions, Energy changes in	134-	
	reactions Displacement reaction, endothermic, exothermic,	136	
	neutralisation, precipitation, reaction profile, activation energy,		
	bond energy, covalent bond. Mole, reaction profile.		

	P9	P9e, More about resistance. how potential difference affects	186-			
		current and resistance in fixed resistors, lamps and diodes; how	190			
		light intensity and temperature affects resistance in LDRs and				
		thermistors; how circuits are used to explore resistance. P9f				
		Transferring Energy advantages and disadvantages of the heating				
		effect, how to reduce unwanted energy transfer in wires, calculate				
		energy transferred.				
	B7	B7c The menstrual cycle Contraception, fertilisation,	54-55			
		menopause, menstrual cycle, Menstruation, oestrogen, ovulation,				
		period, pregnancy, progesterone, puberty B7d Hormones and				
		the menstrual cycle. Assisted Reproductive Technology (ART),				
		clomifene , therapy, corpus luteum, egg follicle, follicle-stimulating				
		hormone (FSH), in vitro fertilisation (IVF), luteinising hormone.				
-	C16	Hydrocarbons in crude oil and natural gas, Crude oil,	137			
		feedstock, finite resource, fossil fuel, hydrocarbon, natural gas,				
		non-renewable, petrochemical				
	P9	P9g – Power , calculate power and rearrange equation, calculate	191-			
		electrical power, P9h - transferring energy by electricity,	193			
		difference between direct and alternating, for both current and				
		voltage, P9i - Electrical safety - difference between live and				
		neutral wires, safer circuits using earth wires and fuses.				
	B7	B7e Control of blood glucose Diabetes, glucagon, homeostasis,	56-58			
		insulin, type 1 diabetes B7f Type 2 Diabetes body mass index				
		(BMI), correlation, type 2 diabetes, waist : hip ratio				
	C16	Fractional distillation of crude oil, Condense, evaporate,	137			
		fraction, fractional distillation, fractionating column, ignite,				
		viscosity				
	P10	P10a Magnets and magnetic fields; How are magnets used, Shape	195-			
		of magnetic fields, plotting magnetic fields, evidence of the earth	196,			
		magnetic field. P10b Electromagnetism; Describe factors that	198			
		affect the strength of a magnetic field. Describe an electromagnet				
		(permanent and temporary)				

B8	B8a Efficient transport and exchange , aerobic respiration, alveolus, capillary, circulatory system, diffusion, excretion, gas exchange, metabolism, multicellular organism, surface area : volume (SA : V) ratio, urea B8b The circulatory system Antibody, artery, blood, capillary, erythrocyte, haemoglobin, heart, lymphocyte, phagocyte, plasma, platelet, pulse, red blood cell, valve , vein, white blood cell	59-62			
C16	The alkane homologous series, Alkane, general formula, homologous series, molecular formula, structural formula	138			
P10	P1Oc Magnetic forces - Fleming's left hand rule, the motor effect, Calculate the size of a force produced by a current in a magnetic field, rearrange the formula	197- 198			
B8	 B8c The heart Aorta, atrium, cardiac output, chamber, contract, deoxygenated blood, heart attack, heart rate, heart valve, impulse, oxygenated blood, pulmonary artery, pulmonary vein, septum, stroke volume, tendon, vena cava, ventricle. B8d Cellular respiration, B8d Core Practical - Respiration rates. aerobic respiration, anaerobic respiration, cellular respiration, exothermic, glucose, lactic acid, mitochondrion 	63-66			
C16	Complete and incomplete combustion . Carbon monoxide, combustion, complete combustion, haemoglobin, incomplete combustion, oxidation, red blood cell, soot, toxic.	139			
P11	P11a Transformers; Calculate electrical power, calculate the current and voltage produced by a transformer, understand how transformers follow the law of energy conservation P11b Transformers and energy – how electricity is transmitted around the country, step up and step down transformers, how transformers work, factors that affect the size and direction of an induced potential difference.	199			

B9	B9a Ecosystems Abundance, community, ecosystem, food web, habitat, Interdependent, population, quadrat, resources, sample B9b Abiotic factors and communities , Core Practical – Quadrats and transects – abiotic factors, adaptation, belt transect, distribution, drought, pollutant, pollution	67	
C16	Combustible fuels and pollution , acid rain, impurity, oxide of nitrogen, pollutant, weathering	139	
P12	P12a Particles and density -arrangement of particles, kinetic theory, calculating density, investigating densities P12b Energy and changes of state - heating substances, specific heat capacity, analysing heating curves, defining specific latent heat.	200- 201, 203	
B9	B9c Biotic Factors and communities Biodiversity, biotic factors, compete, competition, predation, predator-prey cycle B9d Parasitism and mutualism Host, mutualism, parasite, parasitism B9e Biodiversity and humans Eutrophication, fish farming, indigenous, native, non-indigenous, overfishing	68-69	
C16	Breaking down hydrocarbons, Alkene, catalyst, cracking, greenhouse gas. Saturated, unsaturated	140	
P12	P12c Energy Calculations , - calculating changes in thermal energy using specific heat capacity and specific latent of substances) P12 c Core Practical Investigating the properties of water.	202	
B9	B9f Preserving biodiversity Captivity, conservation, endangered, reforestation B9g The water cycle Desalination, distillation, potable, water cycle	70,72	
C17	The early atmosphere, The changing atmosphere Atmosphere, composition , volcanic activity, hypothesis, photosynthesis	141	
P12	P12d Gas temperature and pressure – Explain what causes gas pressure, how gas temperature affects its pressure, difference between temperature scales.	204	

B9	B9h The Carbon Cycle Biomass, carbon cycle, decay.	71,73		
	Decomposer, faeces, fossil fuel B9i The nitrogen cycle crop			
	rotation, manure, nitrate, nitrogen cycle, nitrogen-fixing bacteria			
	The atmosphere today, Climate change .Absorb, causal link,	142-		
	climate change, correlation, emit, global warming, greenhouse	144		
	effect, greenhouse gas, infrared, resolution			
P13	P13a Bending and stretching, - Forces causing objects to change	205-		
	shape, difference between elastic and inelastic distortion,	207		
	relationship between force and extension P13a Core Practical -			
	Investigating springs; P13b Extension and energy transfers -			
	describe the spring constant, calculating force needed to make a			
	string extend, calculate work done in stretching a spring.			

This list is <u>NOT EVERYTHING</u> you need to know but it's a good start. Don't just use your revision guide; <u>use your class notes also</u>. The revision guide <u>does not give enough information for grade 9</u>!

Suggested activities:

- 1. Produce mind maps for each section, highlighting key words and their meanings.
- 2. Construct flow charts for processes; potential 6 mark questions.
- 3. Re draw diagrams and see if you can label them correctly. Do you know what each part does and how it helps?
- 4. Complete worksheets in the revision books & assess progress.
- 5. Draw out genetic crosses to calculate the 'chance' of inheriting a disease.
- 6. Key word definition check lists
- 7. Make flash card notes from your class notes.
- 8. Write any questions/ queries on a post it note and stick it on the relevant revision book pages. Then take it to your revision class and ask the teacher!
- 9. Work through sections on GCSE bitesize: You are following the EDEXCEL combined science course.
- 10. Practice 6 mark questions; don't forget SPG!
- 11. Complete practice calculations including your working out; if you check the answer and it is wrong discuss with a friend/ teacher by showing them your working.
- 12. Evaluate treatments/ processes; What are the advantages/ disadvantages? Can you give reasons for/ against the use of some treatments?
- 13. READ questions carefully and make sure you know what the instruction means; the mark scheme indicates if you have understood the question being asked.