All Tuition Sessions start at 4pm and are REPEATED at 5pm, 6pm, 7pm and 8pm			
Date	Subject	Tuition Session	What's Covered?
Mon 8th Sep	Bio	Enzymes	Lock & Key Theory: lipase, amylase, protease     Effect of temp, substrate conc & pH     Enzymes required practical
Tue 9th Sep	Chem	Periodic Table	Modern periodic table     History of the atom     Mendeleev & isotopes
Wed 10th Sep	Phys	Energy Stores & Transfers	Renewable & Non-Renewable Resources     Kinetic & Gravitational Potential Energy     Elastic Potential Energy
Thu 11th Sep	Bio	Monday Bio Catch Up Replay	Lock & Key Theory: lipase, amylase, protease     Effect of temp, substrate conc & pH     Enzymes required practical
Mon 15th Sep	Bio	Microscopes & Magnification	Using microscopes (required practical) Electron & light microscopes Magnification calculations
Tue 16th Sep	Chem	Separation Techniques	Filtration & Crystallisation     Distillation & Chromatography     Fractional Distillation
Wed 17th Sep	Phys	Energy	Specific heat capacity     Work done     Power
Thu 18th Sep	Chem	Tuesday Chem Catch Up Replay	Filtration & Crystallisation     Distillation & Chromatography     Fractional Distillation
Mon 22nd Sep	Bio	Diffusion, Osmosis, Active Transport	Diffusion     Osmosis     Active transport     Osmosis in potatoes (required practical)
Tue 23rd Sep	Chem	Bonding	Ionic Bonding: formation & properties     Simple molecules     Metals & alloys     Allotropes of carbon
Wed 24th Sep	Phys	Electricity 1	Current     Potential difference     Resistance
Thu 25th Sep	Phys	Weds Physics Catch Up Replay	Current     Potential difference     Resistance
Mon 29th Sep	Bio	Mitosis & Stem Cells	Cell cycle & mitosis Stem cells Meristem in plants
Tue 30th Sep	Chem	Group 1 & 7	Alkali Metals reacting with water  Explaining reactivity of Alkali Metals  Explaining reactivity of halogens  Displacement reactions of halogens  (H) halogens: redox
Wed 1st Oct	Phys	Electricity 2	Resistance vs Current: LED, resistor & filament lamp     Alternating Vs Direct current     National Grid     Step-up + step-down transformers
Thu 2nd Oct	Bio	Monday Biology Catch Up Replay	Cell cycle & mitosis Stem cells Meristem in plants

Mon 6th Oct	Bio	Enzymes	Lock & Key Theory: lipase, amylase, protease     Effect of temp, substrate conc & pH     Enzymes required practical
Tue 7th Oct	Chem	Key Calculations	Calculating concentration Percentage by mass (H) Calculate mass of reactants (H) Limiting reactant (H) Determine balanced equation
Wed 8th Oct	Phys	Particle Model	States of matter changes     Specific latent heat     Density + core practical
Thu 9th Oct	Chem	Tuesday Chem Catch Up Replay	Calculating concentration Percentage by mass (H) Calculate mass of reactants (H) Limiting reactant (H) Determine balanced equation
Mon 13th Oct	Bio	Digestive System	Digestive system     Stomach     Small intestine     Bile
Tue 14th Oct	Chem	Acids + Alkalis	Neutralisation reactions     Indicators     Limiting and excess reactant     (H) Strong and weak acids
Wed 15th Oct	Phys	Radiation & Decay	Alpha, beta & gamma decay     Radioactive decay equations     Half-lives
Thu 16th Oct	Phys	Weds Physics Catch Up Replay	Alpa, beta & gamma decay     Radioactive decay equations     Half-lives
Mon 20th Oct	Bio	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Tue 21st Oct	Chem	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Wed 22nd Oct	Phys	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Thu 23rd Oct	Bio	Monday Biology Catch Up Replay	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Mon 27th Oct	Bio	Paper 1 Exam Walkthrough (Part 2)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Tue 28th Oct	Chem	Paper 1 Exam Walkthrough (Part 2)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Wed 29th Oct	Phys	Paper 1 Exam Walkthrough (Part 2)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Thu 30th Oct	Chem	Tuesday Chem Catch Up Replay	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Mon 3rd Nov	Bio	Plants	Structure of Leaf     Stomata     Xylem and Phloem

Tue 4th Nov	Chem	Electrolysis	How to do electrolysis and key diagram     Electrolysis of molten compounds     Electrolysis of aluminium oxide     Electrolysis of aqueous compounds     (H) Half-equations
Wed 5th Nov	Phys	Forces & Motion	Resultant Forces F=ma Acceleration Velocity/Time graphs Momentum
Thu 6th Nov	Bio (Sep)	Bacteria & Aseptic Technique	Aseptic technique     Antibiotic disks practical     Binary fission
Mon 10th Nov	Bio	Heart & Blood Vessels	Structure of the heart     Comparing the left and right side of the heart     Comparing arteries and veins     Adaptations of capillaries
Tue 11th Nov	Chem	Reactivity & Equilibrium	Reactivity series     Displacement     Dynamic equilibrium     (H) Factors affecting equilibrium     (H) Redox reactions
Wed 12th Nov	Phys	Springs & Hooke's Law	Elastic Potential Energy     Hooke's Law: Limit of Proportionality     Hooke's Law: F = k e     Required practical
Thu 13th Nov	Chem (Sep)	Key Calculations	Percentage yield Molar volume of gases Titration calculations
Mon 17th Nov	Bio	Photosynthesis	Limiting factors of photosynthesis     Photosynthesis required practical     How plants use glucose
Tue 18th Nov	Chem	Energy Changes	Exothermic and endothermic reactions     Why a reaction is exothermic or endothermic     Reaction profiles     (H) Bond energy calculations
Wed 19th Nov	Phys	Forces	w = m x g     Stopping distances     Factors affecting stopping distances     Vector diagrams
Thu 20th Nov	Phys (Sep)	Electrical Charges & Fields	How insulators become charged     Electric fields of charged objects
Mon 24th Nov	Bio	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Tue 25th Nov	Chem	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Wed 26th Nov	Phys	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Thu 27th Nov	Bio (Sep)	Paper 1 Exam Walkthrough (Part 1)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Mon 1st Dec	Bio	Paper 1 Exam Walkthrough (Part 2)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions

Tue 2nd Dec	Chem	Paper 1 Exam Walkthrough (Part 2)	We will go through key exam questions     Using real exam questions
Wed 3rd Dec	Phys	Paper 1 Exam Walkthrough (Part 2)	Instant feedback on the exam questions      We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Thu 4th Dec	Chem (Sep)	Paper 1 Exam Walkthrough (Part 2)	We will go through key exam questions     Using real exam questions     Instant feedback on the exam questions
Mon 8th Dec	Bio	Respiration	Aerobic and anaerobic respiration     Effect of exercise on rates of respiration     Oxygen debt     Why exercise affects heart rate and breathing rate     Fermentation
Tue 9th Dec	Chem	Rates of Reaction	Concentration Temperature Surface area Catalyst Rates of reaction practical - volume of a gas Rates of reaction practical - colour change
Wed 10th Dec	Phys	Waves	Transverse & longitudinal waves Waves properties Calculating frequency & wavelength, and period Ripple tanks
Thu 11th Dec	Bio (Sep)	Plant Disease	Plat Diseases Detecting Plant Diseases Plant Defences
Mon 15th Dec	Bio	Immunity & Drug Testing	Immunity     Vaccines     Drug testing     Clinical trials & Placebo Effect
Tue 16th Dec	Chem	Acids + Alkalis	Neutralisation reactions     Indicators     Limiting and excess reactant     (H) Strong and weak acids
Wed 17th Dec	Phys	Electricity	Resistance vs Current: LED, resistor & filament lamp     Alternating Vs Direct current     National Grid     Step-up + step-down transformers
Thu 18th Dec	Bio	Monday Biology Catch Up	Immunity     Vaccines     Drug testing     Clinical trials & Placebo Effect
Mon 22nd Dec	Holiday Bio	Respiration (Replay)	Aerobic and anaerobic respiration     Effect of exercise on rates of respiration     Oxygen debt     Why exercise affects heart rate and breathing rate     Fermentation
Tue 23rd Dec	Holiday Chem	Rates of Reaction (Replay)	Concentration Temperature Surface area Catalyst Rates of reaction practical - volume of a gas Rates of reaction practical - colour change
Wed 24th Dec	Christmas Eve	Christmas Eve - Have a rest :)	No tuition today. I think you or your child needs a rest
Thu 25th Dec	Christmas Day	Merry Christmas - Have a Rest :)	No tuition today. I think you or your child needs a rest

Mon 29th Dec	Holiday Bio	Heart & Blood Vessels (Replay)	Structure of the heart     Comparing the left and right side of the heart     Comparing arteries and veins     Adaptations of capillaries
Tue 30th Dec	Holiday Chem	Electrolysis (Replay)	How to do electrolysis and key diagram     Electrolysis of molten compounds     Electrolysis of aluminium oxide     Electrolysis of aqueous compounds     (H) Half-equations
Wed 31st Dec	Holiday Phys	Forces & Motion (Replay)	Resultant Forces F=ma Acceleration Velocity/Time graphs Momentum