

SSA GUIDELINES**Practical work:**

- Learners do TWO experiments (ONE Chemistry, ONE Physics) for SSA. Choose three experiments from this A.T.P.
- Term 1: Choose ONE experiment. Record in term one.
- Term 2 OR Term 3: Choose ONE experiment. Record the mark in term 2.
- The suggested formal experiments NOT chosen for SSA, should become informal experiments.

2020: Grade 12 Term 1: PHYSICAL SCIENCES

TERM 1 (32 days)	Week 1 15/1 – 17/1 (3 days)	Week 2 20/1 – 24/1 (5 days)	Week 3 27/1 – 31/1 (5 days)	Week 4 3/2 – 7/2 (5 days)	Week 5 10/2 – 14/2 (5 days)	Week 6 17/2 – 21/2 (5 days)	Week 7 24/2 – 28/2 (5 days)	Week 8 3/3 – 7/3 (5 days)	Week 9-10 10/3 – 21/3 (12 days)	Week 11 24/3 – 28/3 (5 days)
CAPS Topics	MECHANICS: Momentum & Impulse (2 hrs)	MECHANICS: Momentum & Impulse (2 hrs)	MECHANICS: Vertical projectile motion (2 hrs)	MECHANICS: Vertical projectile motion (2 hrs)	WAVES, SOUND & LIGHT: Doppler Effect (2 hrs)	MATTER 1: MATERIALS: Organic molecules (2 hrs)	MATTER 1: MATERIALS: Organic molecules (2 hrs)	MATTER 1: MATERIALS: Organic molecules (2 hrs)	MATTER 1: MATERIALS: Organic molecules (2 hrs)	CONTROL TEST (2 hrs)
Topics / Concepts, Skills and Values	- Define & calculate the momentum of a moving object $p = mv$ - Describe the vector nature of momentum & draw vector diagrams. - State Newton's second law in terms of momentum: $F_{net} = \frac{\Delta p}{\Delta t}$ - Calculate the change in momentum when a resultant force acts on an object.	- Define impulse - Use the impulse-momentum theorem ($F_{net} \Delta t = \Delta p$) in calculations for a variety of situations (one dimension) - Impulse and safety considerations - State the principle of conservation of total momentum - Explain what is meant by an isolated system, internal and external forces. - Apply conservation of momentum to collisions (one dimension). - Distinguish between elastic and inelastic collisions by calculation.	- Explain what is meant by a projectile. - Use equations of motion to determine the position, velocity and displacement of a projectile at any given time. - Sketch v vs t, a vs t and s vs t graphs for a free falling object, an object thrown vertically upwards, object thrown vertically downwards & bouncing objects. - Use equations for position versus time and velocity versus time for the graphs of 1D projectile motion.	- For given v vs t, a vs t or s vs t graphs, determine position, displacement and velocity or acceleration at any time t. - For given s vs t, v vs t or a vs t graphs, describe the motion of an object (stopping, thrown vertically upwards & thrown vertically downward and so on).	- State the Doppler effect and explain using illustrations the change in pitch observed when a source moves toward or away from a listener (sound and ultrasonic). - State applications of the Doppler effect (Example ultrasound in medicine) - State problems using $f_o = \frac{v}{\lambda}$, $f_s = \frac{v}{\lambda_s}$, $f_l = \frac{v}{\lambda_l}$ when $f_o \neq f_s$ or $f_l \neq f_s$ - Sketch source or listener moves. - State light, explain red shifts & use the Doppler Effect to explain why we conclude that the universe is expanding.	- Define organic molecules, functional groups, hydrocarbon, homogeneous series, saturated, unsaturated, and structural isomer. - Write condensed, structural & molecular formulae (over 8 C atoms, 1 functional group per molecule) for alkanes (no rings), alkenes (no rings), alkynes, alcohols, halo alkanes (no rings), carboxylic acids, aldehydes, ketones, esters. - Write IUPAC names for structural condensed structural formulae for compounds from above series.	- Write IUPAC names from structural or condensed structural formulae for compounds (over 10 C atoms) (one functional group per molecule, max. two functional groups for halo alkanes) - Identify other substituents (halogen and other), max. fivefold alkyl substituents. - Identify compounds that are saturated, unsaturated, structural isomers, alkenes, alkyne, alcohols, aldehydes, ketones, carboxylic acids, esters, amides, nitriles. - Physical properties, boiling point, melting point, vapour pressure	- Relationship between physical properties and strength of IMF, type of functional group, chain length and branching - Combustion of alkanes in excess oxygen and use in fuels - Equation & reaction conditions for the formation of an ester and IUPAC names for reactant and products - Chemically reactions as elimination, addition or substitution. Equations and reaction conditions for addition reactions of alkenes	- Equations and reaction conditions for elimination reactions: dehydrohalogenation of halo alkanes, cracking of alkanes, dehydration of alcohols. - Equations and reaction conditions for substitution reactions: hydrolysis of halo alkanes, saponification of esters	Revision (2 hours) ONE PAPER (100 marks: 2 hours): Physics - Newton's laws of motion - Momentum and impulse - Vertical projectile motion - Doppler Effect 40 marks: Chemistry - Organic molecules Discussion and remedial work of control test.
Requisite pre-knowledge	Newton's laws of motion	Newton's laws of motion Equations of motion	Equations of motion	Equations of motion	- Wave properties: frequency, wavelength, amplitude - Graphical representation of waves	Chemical bonding Valency	Chemical bonding Valency	Hydrocarbon series	IUPAC naming, writing different formulae	SSA

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