

SBA GUIDELINES**Practical work:**

- Learners do TWO experiments (ONE Chemistry, ONE Physics) for SBA. 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 SBA, should become informal experiments.

2021: 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 (starting, turning, vertically upwards & thrown, vertically downwards 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 ultraviolet). - State applications of the Doppler effect (Example ultrasound in medicine) - Some problems using $f_o = \frac{v}{\lambda}$, $f_s = \frac{v}{\lambda_s}$, $f_l = \frac{v}{\lambda_l}$ when $f_o \neq f_s$ - 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 alkyl) - max. 100000 alkyl substituents. - Identify compounds that are saturated, unsaturated, structural isomers, alkenes, alkyne, alcohols, aldehydes, ketones, carboxylic acids, esters, amides, nitriles, amines, azides, azo compounds. - Physical properties, boiling point, melting point, vapour pressure	- Relationship between physical properties and strength of MP, 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. - Chemical reactions as elimination, addition or substitution. Equations and reaction conditions for addition reactions of alkenes.	- Equations and reaction conditions for elimination reactions: dehydration of halo alkanes, cracking of alkanes, dehydration of alcohols. - Equations and reaction conditions for substitution reactions: hydrolysis of halo alkanes, nucleophilic substitution of alkanes.	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.
Requires 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	N/A

Sacai June 2014 Physical Science

Minjie Lin



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Decoding **Sacai June 2014 Physical Science**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Sacai June 2014 Physical Science**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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