

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

# Sacai June 2014 Physical Science

**Christian G. Meyer**



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