

SBA GUIDELINES

Practical work:

- Learners do TWO experiments (ONE Chemistry, ONE Physics) for SBA.
- Term 1: Newton's 2nd law of motion OR verification of gravitational acceleration
- Term 3: Boyle's law OR Titration

2025 ATP: Grade 11 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 10/3 – 14/3 (5 days)	Week 10 & 11 17/3 – 28/3 (9 days)	
CAPS Topics (48 hrs)	MECHANICS: Vectors in two dimensions (2 hrs)	MECHANICS: Vectors in two dimensions (4 hrs)	MECHANICS: Vectors in two dimensions (2 hrs) Newton's laws (2 hrs)	MECHANICS: Newton's laws (4 hrs)	MECHANICS: Newton's laws (4 hrs)	MECHANICS: Newton's laws (4 hrs)	MECHANICS: Newton's universal law (4 hrs)	ELECTRICITY & MAGNETISM: Electrostatics (4 hrs)	ELECTRICITY & MAGNETISM: Electrostatics (4 hrs)	ELECTRICITY & MAGNETISM: Electrostatics (4 hrs)	
Topics, Concepts, Skills and Values	- Define a resultant. - Determine the resultant of vectors (graphically) on a Cartesian plane, using the component method. - Sketch the vertical vector (R_y) and the horizontal vector (R_x) on a Cartesian plane.	- Calculate the magnitude of the resultant using the theorem of Pythagoras. - Determine the direction of the resultant using simple trigonometric ratios. - Determine the resultant (R) of two vectors graphically using either the tail-to-head or tail-to-tail method (graphometric method) for a maximum of four vectors in both 1 dimension and 2 dimensions. - Explain the meaning of a closed vector diagram.	- Positive a vector if into its horizontal (R_x) and vertical (R_y) components using $R_x = R \cos \theta$ and $R_y = R \sin \theta$ where θ is the angle between r and the x-axis. Newton's laws - Define normal force, R_N. - Define frictional force, f. - Know that a frictional force: - is proportional to the normal force, - is independent of the area of the surfaces that are in contact with each other.	- Define the static frictional force, F_s. - Solve problems using: $F_s^{\text{max}} = \mu_s F_N$ - Define the kinetic frictional force, F_k. - Solve problems using $F_k = \mu_k F_N$ - Draw force diagrams. - Draw free-body diagrams. Resolved a two-dimensional force, e.g. the weight of an object on an inclined plane, into its parallel ($F_{\parallel}$) and perpendicular ($F_{\perp}$) components. - Determine the resultant force of two or more forces. - State Newton's first law of motion. - Define inertia and state that the mass of an object is a quantitative measure of its inertia. - Discuss why it is important to enter coefficients using Newton's first law of motion.	- State Newton's second law of motion in a variety of situations in symbols: $F_{\text{net}} = ma$ - Draw force diagrams and free-body diagrams for objects that are in equilibrium or accelerating. - Apply Newton's second law of motion in a variety of equilibrium and non-equilibrium problems including: - A single object: - moving in a horizontal plane with or without friction - moving on an inclined plane with or without friction - moving in the vertical plane (e.g. rockets, etc.)	- Apply Newton's second law of motion to a variety of equilibrium and non-equilibrium problems including: - Two-body systems (joined by a light inextensible string): - Both on a horizontal plane with or without friction - One in a horizontal plane with or without friction, and a second hanging vertically from a string over a frictionless pulley - Both on an inclined plane with or without friction - Both hanging vertically from a string over a frictionless pulley	- State Newton's third law of motion. - Identify Newton's third law pairs (action-reaction pairs) and list the properties of the force pairs (action-reaction pairs). - State Newton's law of gravitation. - Solve problems using $F = \frac{Gm_1m_2}{r^2}$ - Calculate acceleration due to gravity on Earth using $g = \frac{GM}{r^2}$ and on another planet using $g = \frac{GM_p}{r^2}$ - Explain the difference between the weight and mass. Calculate weight using their mg. - Calculate the weight of an object on other planets with different values of gravitational acceleration. - Explain the term weightlessness.	- State Coulomb's law. - Solve problems using $F = k\frac{Q_1Q_2}{r^2}$ - charges in one dimension (1D) – limited to three charges. - Solve problems using $F = k\frac{Q_1Q_2}{r^2}$ - charges in two dimensions (2D) – for three charges in a right-angled triangle (and its charges at the vertices of a right-angled triangle).	- Describe an electric field as a region in space in which an electric charge experiences a force. - Draw electric field patterns for the following configurations: - A single point charges. - Two point charges (one negative, one positive OR both positive OR both negative) - A charged sphere (assumed to be charged uniformly) - Define the electric field at a point ($E = \frac{F}{q}$). - Solve problems using the equation $E = \frac{kQ}{r^2}$	- Calculate the electric field at a point due to a number of point charges, using the equation: $E = \frac{kQ}{r^2}$ - Explain the contribution to the field due to each charge. Resolved to three charges in a straight line.	DEB PAPER (180 marks) - Vectors in two dimensions - Newton's laws - Electrodynamics
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