

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	<ul style="list-style-type: none">Define a resultantDetermine the resultant of vectors (graphically) but on a Cartesian plane, using the component methodSketch the vertical vector (R_y) and the horizontal vector (R_x) on a Cartesian plane	<ul style="list-style-type: none">Calculate the magnitude of the resultant using the theorem of PythagorasDetermine the direction of the resultant using simple trigonometric ratiosDetermine the resultant (R) of two vectors graphically using either the tail-to-head or tail-to-tail method (graphical method) for a maximum of four vectors in both 1 dimension and 2 dimensionsExplain the meaning of a closed vector diagram	<ul style="list-style-type: none">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 <p>Newton's laws</p> <ul style="list-style-type: none">Define normal force, R_NDefine frictional force, fKnow that a frictional force f is proportional to the normal force, N is independent of the area of the surfaces that are in contact with each other	<ul style="list-style-type: none">Define the static frictional force, F_sSolve problems using $F_s^{\text{max}} = \mu_s N$Define the kinetic frictional force, F_kSolve problems using $F_k = \mu_k N$Draw force diagramsDraw free-body diagrams, showing a two-dimensional force, e.g. the weight of an object on an inclined plane, into its parallel (F_{\parallel}) and perpendicular (F_{\perp}) componentsDetermine the resultant force of two or more forcesState Newton's first law of motionDefine inertia and state that the mass of an object is a quantitative measure of its inertiaDiscuss why it is important to enter coefficients using Newton's first law of motion	<ul style="list-style-type: none">State Newton's second law of motion in symbols in SI units: $F_{\text{net}} = ma$Draw force diagrams and free-body diagrams for objects that are in equilibrium or acceleratingApply Newton's second law of motion in a variety of equilibrium and non-equilibrium problems including:<ul style="list-style-type: none">A single object moving in a horizontal plane with or without frictionMoving on an inclined plane with or without frictionMoving in the vertical plane (e.g. rockets, etc.)	<ul style="list-style-type: none">Apply Newton's second law of motion in a variety of equilibrium and non-equilibrium problems including:<ul style="list-style-type: none">Two-body systems (joined by a light inextensible string)<ul style="list-style-type: none">Both on a horizontal plane with or without frictionOne in a horizontal plane with or without friction, and a second hanging vertically from a string over a frictionless pulleyBoth on an inclined plane with or without frictionBoth hanging vertically from a string over a frictionless pulley	<ul style="list-style-type: none">State Newton's third law of motionIdentify Newton's third law action-reaction pairs and list the properties of the force pairs (action-reaction pairs)State Newton's law of gravitationSolve problems using $F = G \frac{m_1 m_2}{r^2}$Calculate acceleration due to gravity on Earth using $a = \frac{GM}{r^2}$ and on another planet using $a = \frac{GM_p}{r^2}$Explain the difference between the weight and mass. Calculate weight using their mgCalculate the weight of an object on other planets with different values of gravitational accelerationExplain the term weightlessness	<ul style="list-style-type: none">State Coulomb's lawSolve problems using $F = k \frac{Q_1 Q_2}{r^2}$charges in one dimension (1D) – limited to three chargesSolve problems using $F = k \frac{Q_1 Q_2}{r^2}$charges in two dimensions (2D) – for three charges in a right-angled triangle (and in charges at the vertices of a right-angled triangle)	<ul style="list-style-type: none">Describe an electric field as a region in space in which an electric charge experiences a forceDraw electric field patterns for the following configurations:<ul style="list-style-type: none">A single point chargesTwo point charges (one negative, one positive OR both positive OR both negative)A charged sphere (show that charges are distributed in magnitude)Define the electric field at a point ($E = \frac{F}{q}$)Solve problems using the equation $E = \frac{kQ}{r^2}$	<ul style="list-style-type: none">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. Resultant to three charges in a straight line	<p>DEB PAPER (180 marks)</p> <ul style="list-style-type: none">Vectors in two dimensionsNewton's lawsElectrostatics
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