

## SBA GUIDELINES

## Practical work:

- Learners do TWO experiments (ONE Chemistry, ONE Physics) for SBA.
- Term 1: Newton's 2<sup>nd</sup> 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"><li>• Define a resultant.</li><li>• Determine the resultant of vectors (graphically) but on a Cartesian plane, using the component method.</li><li>• Sketch the vertical vector (<math>R_y</math>) and the horizontal vector (<math>R_x</math>) on a Cartesian plane.</li></ul>	<ul style="list-style-type: none"><li>• Calculate the magnitude of the resultant using the theorem of Pythagoras.</li><li>• Determine the direction of the resultant using simple trigonometric ratios.</li><li>• Determine the resultant (<math>R</math>) 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 dimensions.</li><li>• Explain the meaning of a closed vector diagram.</li></ul>	<ul style="list-style-type: none"><li>• Positive a vector if into its horizontal (<math>R_x</math>) and vertical (<math>R_y</math>) components using <math>R_x = R \cos \theta</math> and <math>R_y = R \sin \theta</math> where <math>\theta</math> is the angle between <math>r</math> and the <math>x</math>-axis.</li></ul> <p><b>Newton's laws</b></p> <ul style="list-style-type: none"><li>• Define normal force, <math>R_N</math>.</li><li>• Define frictional force, <math>f</math>.</li><li>• Know that a frictional force <math>f</math> is proportional to the normal force, <math>N</math>, is independent of the area of the surfaces that are in contact with each other.</li></ul>	<ul style="list-style-type: none"><li>• Define the static frictional force, <math>F_s</math>.</li><li>• Solve problems using <math>F_s^{\text{max}} = \mu_s N</math>.</li><li>• Define the kinetic frictional force, <math>F_k</math>.</li><li>• Solve problems using <math>F_k = \mu_k N</math>.</li><li>• Draw force diagrams.</li><li>• Draw free-body diagrams. Resolved a two-dimensional force, e.g. the weight of an object on an inclined plane, into its parallel (<math>F_{\parallel}</math>) and perpendicular (<math>F_{\perp}</math>) components.</li><li>• Determine the resultant force of two or more forces.</li><li>• State Newton's first law of motion.</li><li>• Define inertia and state that the mass of an object is a quantitative measure of its inertia.</li><li>• Discuss why it is important to enter coefficients using Newton's first law of motion.</li></ul>	<ul style="list-style-type: none"><li>• State Newton's second law of motion in symbolic form: <math>F_{\text{net}} = ma</math>.</li><li>• Draw force diagrams and free-body diagrams for objects that are in equilibrium or accelerating.</li><li>• Apply Newton's second law of motion in a variety of equilibrium and non-equilibrium problems including:<ul style="list-style-type: none"><li>• A single object moving in a horizontal plane with or without friction.</li><li>• Moving on an inclined plane with or without friction.</li><li>• Moving in the vertical plane (e.g. rockets, etc.).</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Apply Newton's second law of motion in a variety of equilibrium and non-equilibrium problems including:<ul style="list-style-type: none"><li>• Two-body systems (joined by a light inextensible string):<ul style="list-style-type: none"><li>• Both on a horizontal plane with or without friction.</li><li>• One in a horizontal plane with or without friction, and a second hanging vertically from a string over a frictionless pulley.</li><li>• Both on an inclined plane with or without friction.</li><li>• Both hanging vertically from a string over a frictionless pulley.</li></ul></li></ul></li></ul>	<ul style="list-style-type: none"><li>• State Newton's third law of motion.</li><li>• Identify Newton's third law pairs (action-reaction pairs) and list the properties of the force pairs (action-reaction pairs).</li><li>• State Newton's law of gravitation.</li><li>• Solve problems using <math>F = G \frac{m_1 m_2}{r^2}</math>.</li><li>• Calculate acceleration due to gravity on Earth using <math>a = \frac{GM}{r^2}</math> and on another planet using <math>a = \frac{GM_p}{r^2}</math>.</li><li>• Explain the difference between the weight and mass. Calculate weight using <math>W = mg</math>.</li><li>• Calculate the weight of an object on other planets with different values of gravitational acceleration.</li><li>• Explain the term weightlessness.</li></ul>	<ul style="list-style-type: none"><li>• State Coulomb's law.</li><li>• Solve problems using <math>F = k \frac{Q_1 Q_2}{r^2}</math>.</li><li>• charges in one dimension (1D) – limited to three charges.</li><li>• Solve problems using <math>F = k \frac{Q_1 Q_2}{r^2}</math>.</li><li>• charges in two dimensions (2D) – for three charges in a right-angled triangle (and in charges at the vertices of a right-angled triangle).</li></ul>	<ul style="list-style-type: none"><li>• Describe an electric field as a region in space in which an electric charge experiences a force.</li><li>• Draw electric field patterns for the following configurations:<ul style="list-style-type: none"><li>• A single point charges.</li><li>• Two point charges (one negative, one positive OR both positive OR both negative).</li><li>• A charged sphere (assumed to be charged uniformly).</li></ul></li><li>• Define the electric field at a point (<math>E = \frac{F}{q}</math>).</li><li>• Solve problems using the equation <math>E = \frac{kQ}{r^2}</math>.</li></ul>	<ul style="list-style-type: none"><li>• Calculate the electric field at a point due to a number of point charges, using the equation <math>E = \frac{kQ}{r^2}</math>.</li><li>• Explain the contribution to the field due to each charge. Resolved to three charges in a straight line.</li></ul>	<p><b>DEB PAPER (180 marks)</b></p> <ul style="list-style-type: none"><li>• Vectors in two dimensions</li><li>• Resultant force</li><li>• Electrostatics</li></ul>
DATE COMPLETED											
SIGNATURE											

# 2015 Agric Grade11 North West

**Wolfgang Guggemos**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Wolfgang Guggemos.

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following property n an a whennisodd example 7 1 9 simplify 5 10 5 5 32

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web feb 24 2012 some key points to remember one way to simplify a radical is to factor out the perfect squares see example a when adding radicals you can only combine radicals with the same number underneath it for example  $2\sqrt{5} + 3\sqrt{6}$  cannot be combined because 5 and 6 are not the same number see example b to multiply two radicals

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web simplifying radicals radicals were introduced in previous tutorial when we discussed real numbers for example  $2\sqrt{5}$  and  $2\sqrt{14}$  an infinite nonrepeating decimal we are now interested in developing techniques that will aid in simplifying radicals and expressions that contain radicals

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web oct 6 2021 answer 2yz  $5x^3y$  tip to simplify finding an n th root divide the powers by the index  $a^6/a^3$  which is  $a^2/a^3$   $b^6/b^2$  which is  $b^3/b^2$   $c^6/c$  which is  $c^5/c^1$  if the index does not divide into the power evenly then we can use the quotient and remainder to simplify

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web a radical is also in simplest form when the radicand is not a fraction example  $1 33$  for example has no square factors its factors are  $3 11$  neither of which is a square number therefore is in its simplest form example 2 extracting the square root  $18$  has the square factor  $9 18 9 2$

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web we will simplify this radical expression into the simplest form until no further simplification can be done step 1 find the factors of the number under the radical  $486 3 3 3 3 2$  step 2 write the number under the radical as a product of its factors as powers of 2  $486 3^2 3^2 3^2$

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web simplify a radical expression using the product property step 1 find the largest factor in the radicand that is a perfect power of the index rewrite the radicand as a product of two factors using that factor step 2 use the product rule to rewrite the radical as the product of two radicals step 3

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