

**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 (2hrs)	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 (component 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, showing 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 symbols: <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 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 their <math>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) – related 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 (find the 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 (field is a charged identical in magnitude)</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. Resultant to three charges in a straight line</li></ul>	<p><b>Oral PAPER (18 marks)</b></p> <ul style="list-style-type: none"><li>Vectors in two dimensions</li><li>Newton's laws</li><li>Electrostatics</li></ul>
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# Physical Sciences Memorandum Controll Test No 2

## Grade11 Term3

**J Spring**



## **Physical Sciences Memorandum Controll Test No 2 Grade11 Term3:**

Fundamentals of the Physical Therapy Examination: Patient Interview and Tests & Measures Stacie J. Fruth, 2013-02-14

Fundamentals of the Physical Therapy Examination Patient Interview and Tests Measures introduces physical therapy students to essential screening and examination techniques that form the foundation of their practice across all body systems. It then builds on the foundational knowledge and helps students develop clinical decision making skills. Experienced clinicians make numerous and rapid decisions about what questions to ask during a patient interview, what systems need to be screened for problems that lie outside the scope of physical therapy, and what tests and measures must be performed during an initial patient examination. Physical therapy students and some new graduates often struggle with this decision making process and answering the why questions. This text provides the reader with a fundamental step by step approach to the subjective and objective portions of the examination process for a broad spectrum of patients within the musculoskeletal, neuromuscular, integumentary, and cardiopulmonary realms according to the Guide to Physical Therapist Practice. Ample rationale is provided for why a test measure would or would not be selected based on the patient's diagnosis or presentation. In addition to rationale to help with the clinical decision making process, case examples and sample documentation will also be provided. Each new textbook includes access to an extensive array of online videos demonstrating the how to for a wide variety of fundamental physical therapy tests and measures such as gross strength testing, various sensory tests, reflex assessment, and examples of a number of abnormal gait patterns. Also included in the videos are two complete patient examinations: interview and tests measures, one musculoskeletal and one neurological. Key Features: Clinical decision making flow charts, Key point callouts, Clinical challenge questions, Rationales, Case examples, Documentation examples, Hundreds of full color photographs, Videos, an online access code accompanies each new print textbook. Key Topics: Patient interview techniques and communication tools including sample interview questions, Review of body systems, Overview of physical screening tests and measures as outlined by the Guide to Physical Therapist Practice, Descriptions, rationales, and case scenarios for each test and measure, The step by step approach, Types of tests and measures, Observation, mental status and functional assessment, Musculoskeletal screening, Neurological screening, Integumentary screening, Companion Website includes Key Image Review, Web Links, Videos of Patient Interviews and Exams, Videos of Exam Procedures, Musculoskeletal patient interview and exam, Neurological patient interview and exam, Gait abnormalities, Videos of Tests and Measures, Postural assessments, Range of motion, Muscle length testing, Gross strength testing, Dermatome, myotome testing, Deep tendon reflexes, Sensation C.

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States Army, Department of the Army, U. S. Army, Army, DOD, The United States Army, AR 600 8 24 04 12 2006 OFFICER TRANSFERS AND DISCHARGES Survival Ebooks      **Bulletin of the Atomic Scientists** ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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vanilla ice cream with chocolate chips ninja test kitchen - Sep 04 2022

web easy serves 4 make it dairy free use vegan cream cheese for cream cheese unsweetened coconut cream for heavy cream and unsweetened oat milk for whole milk whisk the coconut cream until smooth then add the remaining ingredients make it lite use ½ teaspoon stevia and 2 ½ tablespoons raw agave nectar for granulated sugar

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web jan 2 2023 the ninja creami recipe makes one pint sized jar of ice cream but you can also purchase multiple pints to create several containers of vanilla ice cream at once this is great for having that base flavor and then using mix

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web may 16 2023 this ninja creami vanilla ice cream is kind of a mix between a no churn recipe and a traditional ice cream recipe but without the hassle of cooking or churning the ice cream all the ingredients are added to a blender and then poured into a pint size container to freeze for 24 hours

*ninja creami vanilla protein ice cream* by kelsey smith - Mar 30 2022

web may 28 2023 ingredients fairlife core power vanilla protein shake this is the 14 fl oz vanilla shake core power is made with ultra filtered gluten free high protein lactose free milk stevia sugar substitute sugar free instant vanilla pudding mix this is a dry mix that can be found in grocery stores on the baking aisle

*ninja creami vanilla ice cream recipe* *season thyme* - Oct 05 2022

web feb 2 2023 enjoy this easy ninja creami vanilla ice cream recipe there are only a few simple ingredients to make this cold and creamy treat as i have been using my ninja creami machine more and more i knew that i would have to create a

**ninja creami vanilla bean ice cream fork to spoon** - Jun 01 2022

web step one prepare your ice cream mixture add the cream cheese sugar and vanilla bean paste in a large mixing bowl mix together until the granulated sugar is dissolved fold in the heavy whipping cream and milk and mix well until all ingredients are combined

**ninja creami vegan vanilla ice cream no bananas no coconut** - Jan 28 2022

web nov 24 2022 this recipe is spectacular it comes out creamier and richer than the standard vanilla recipe from the ninja creami recipe booklet using real dairy just made it for my husband who is very picky and he loved it thought it tasted very close to regular vanilla ice cream

ninja creami vanilla soft serve with low fat milk - May 12 2023

web may 29 2023 ingredients low fat milk you can use nonfat milk but know the flavor and texture will be slightly impacted you can also use whole milk my favorite milk to use is the fairlife reduced fat milk that is lactose free instant vanilla pudding mix you can use regular or sugar free there are two reasons for adding a little bit of this

*ninja creami vanilla bean ice cream the tasty travelers* - Jul 02 2022

web oct 12 2021 check out our recipe for ninja creami vanilla bean ice cream there is just something so great about the rich vanilla flavor that vanilla beans give to ice cream yes vanilla extract does the job but vanilla beans give the ice cream such a rich and sweet vanilla flavor that you just can't get from the extract alone

simple ninja creami vanilla ice cream recipe - Aug 15 2023

web dec 10 2022 making vanilla ice cream in the ninja creami you will be astonished at how easy it is to make this homemade vanilla ice cream ninja creami vanilla ice cream ingredients the basic ingredients that you need to make homemade vanilla ice cream are these white granulated sugar full fat cream cheese whole milk pure vanilla extract

**my perfected ninja creami vanilla bean ice cream recipe** - Apr 30 2022

web may 22 2022 ingredients 1 cup whole milk 1 cup heavy cream 1 4 cup of sweetened condensed milk 1 tbsp of pure liquid vanilla extract 1 4 cup of granulated sugar 1 4 cup of powdered sugar 1 pinch of salt

**easy ninja creami vanilla ice cream recipe margin making** - Feb 09 2023

web this usually does the trick if you need to make this dairy free you can use unsweetened oat milk instead of milk unsweetened coconut cream instead of heavy cream and vegan cream cheese instead of regular cream cheese recipe slightly adapted from ninja creami

**ninja creami vanilla ice cream recipe without cream cheese** - Apr 11 2023

web jul 27 2023 for the full vanilla ice cream recipe for the ninja creami with measurements see the recipe card at the end of the post place your half and half sugar vanilla extract and a pinch of salt into a blender

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web aug 27 2023 if you have a ninja creami or are thinking about getting one this vanilla ice cream is a great place to start read through the recipe below and you'll see how simple it is just 5 ingredients and about 5 minutes of your time will give you a pretty great ice cream

**basic vanilla ice cream ninja test kitchen** - Jun 13 2023

web this is the ninja plain vanilla ice cream recipe that is simply delicious eaten plain or with your favorite topping you can also use it as a base for creating your own unique recipes

**easy ninja creami recipes for the ninja ice cream maker** - Dec 27 2021

web in a large microwave safe bowl microwave the cream cheese for 10 seconds add the sugar and vanilla and combine until the mixture is smooth and creamy slowly mix in the heavy cream and milk until fully combined and sugar is dissolved pour base into an empty creami pint

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web in a small mixing bowl or large liquid measuring cup combine instant pudding mix and milk whisk together until pudding mix dissolves add heavy cream and vanilla extract whisking just to combine transfer mixture to a ninja creami pint being careful not to exceed the max fill line and close the lid

**ninja creami vanilla ice cream recipe youtube** - Mar 10 2023

web jun 8 2023 this ninja creami vanilla ice cream recipe is made with cream cheese sugar vanilla whole milk and heavy cream it s the perfect base recipe it customize

les invasions barbares wikipédia - Dec 28 2021

web les invasions barbares est un film franco québécois écrit et réalisé par denys arcand sorti en 2003 c est le volet central du triptyque défini par son réalisateur entre le déclin de l empire américain 1986 et l Âge des ténèbres 2007 synopsis cette section est vide insuffisamment détaillée ou incomplète

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web les invasions barbares la partie occidentale de l empire romain subit des assauts violents de la part des peuples le plus directement menacés par les hunns venus d asie en 406 le limes rhénan est franchi par des groupes

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web les iv e et v e siècles sont les siècles des invasions barbares qui mettent un terme à l empire romain les barbares germaniques qui cherchent depuis des décennies à entrer plus ou moins pacifiquement dans l empire se trouvent brutalement poussés en dehors de leurs terres par l approche des hunns venus eux mêmes d asie centrale et dont les

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web définition limes le limes est une ligne de fortifications de 900 km de long construite par les romains pour protéger leur territoire définition barbares pour les romains tous les peuples qui vivent au delà des frontières de l empire et qui ne parlent ni latin ni grec sont des barbares au début du v e siècle les hunns

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web 3 médias les invasions barbares ont apporté à leur tour quelques modifications au paysage antique si le roi ostrogoth a pris la suite des empereurs à ravenne et le roi vandale celle du proconsul de carthage d autres souverains ont créé de nouvelles capitales toulouse et surtout tolède pour



