

NSC : GRADE 12
PHYSICAL SCIENCES P1 : NOV. 2024
MEMO PREPARED BY I.B MBAY.

QUESTION 1

- 1.1. B
- 1.2. D
- 1.3. A
- 1.4. C
- 1.5. C
- 1.6. A
- 1.7. A
- 1.8. C
- 1.9. D
- 1.10. D

QUESTION 2.

- 2.1. A force that opposes the tendency to motion of an object relative to the surface.

2.2. 

2.3.1. $T = mg = 4,2 \cdot 9,8 = 41,16 \text{ N}$
 $f_s = T$
 $f_s = \mu_s \cdot N$
 $41,16 = \mu_s \cdot (8,5 \cdot 9,8)$
 $\mu_s = 0,49.$

14 Phsc Nov Exam Pgauteng

Julia Schneider



14 Phsc Nov Exam Pgauteng:

Reviewing **14 Phsc Nov Exam Pgauteng**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**14 Phsc Nov Exam Pgauteng**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web 1 label the pyramid levels in model 1 with the following primary producers primary consumers secondary consumers and tertiary consumers 2 the arrows in model 1

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pyramid of energy is the only type of ecological pyramid which is always upright as the energy flow in a food chain is always unidirectional also with every increasing trophic level some energy is lost into the see more

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web refer to model 1 a how much energy per year do the caterpillars in model i obtain from eating the leaves in a square meter of the oak tree y ooo tcti b what percentage of

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in this particular type of ecological pyramid each level takes into account the amount of biomass produced by each trophic level the pyramid of biomass is also upright except see more

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web the ballistic pendulum physics 110 laboratory in this experiment you will determine the muzzle velocity of a gun using two different methods the first method consists of firing a ball horizontally from the tabletop by measuring the range of the ball in the second part of the experiment the ball will be fired into the ballistic pendulum shown above and

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web nov 20 2013 ballistic pendulum experiment written by arturo i abstract for experiment 13 ballistic pendulum we used the conservation of momentum and mechanical energy to determine the velocity of a ball as it is shot from a launcher the angle was measured every time the launcher was released for method a

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web experiment 8 ballistic pendulum objective to use a ballistic pendulum to determine the velocity of a projectile to verify this velocity by measuring the range of the projectile experiment we use measurements obtained from a ballistic pendulum to review energy conservation momentum conservation and projectile motion

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web sep 10 2020 the ballistic pendulum is a device used to determine the speed of objects moving too fast for conventional instruments the basic idea is that a projectile is fired into a pendulum which then swings upward to some height which is measured

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web abstract in this experiment we measured g by measuring the period of a pendulum of a known length we measured $g = 7.65 \pm 0.378 \text{ m/s}^2$ this corresponds to a relative difference of 22.22% with the accepted value 9.8 m/s^2 and our result is not consistent with the accepted value

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web nov 13 2015 the ballistic pendulum was invented in 1742 to measure the speed of bullets as you can see from this experiment it is not necessary to use a ballistic pendulum to measure the speed of a slowly moving object but the ballistic pendulum does illustrate the use of several important conservation laws in physics 3 equipment

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web experiment 7 ballistic pendulum physic 181 april 15 2021 purpose the overall purpose of this experiment was to do observation and find the solution of whether the initial and final momentum of the object is zero when comparing this was done by launching a plumb bob to see its height from above the ground to the landing and also the bob

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web 1 introduction in the ballistic pendulum experiment a small ball is shot from a launcher into a barrel at the end of rigid arm pendulum the ball lodges itself in the barrel and they swing together up to some maximum height energy is not conserved in the completely inelastic collision but linear momentum is

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web this paper presents the implementation of a physical pendulum for the physics laboratory using mainly a bar and a disc mounted on it which can be moved along this bar using implements such as a flexometer to measure the different lengths and a stopwatch to take the oscillation period of the pendulum

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web lab 12 ballistic pendulum experimental objectives to verify that the equations of conservation of momentum and conservation of mechanical energy give the same results as the equations of two dimensional motion by comparing the initial velocity the muzzle velocity of the ballistic projectile from two different sets of experimental measurements

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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web theory a ballistic pendulum is a device that can be used to measure the speed of projectiles using both conservation of momentum and conservation of energy it contains a swinging pendulum and a spring gun the gun shoots out the projectile ball bearing into the bob creating an inelastic collision