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**PREPARATORY EXAMINATION**

**GRADE 12**

**PHYSICAL SCIENCES P1  
(PHYSICS)**



This question paper consists of 17 pages and 3 information sheets.

# Physical Science P1 Preparatory Exam Memo

**J Dewey**



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historic of momentum we have  $mv_a = m v_f$  just for and after the ball contacted the bob where  $m$  is the mass of the ball  
and  $m$  is the mass of the bob and  $v_a$  and  $v_b$  are the ball's speed just before and just after collision

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

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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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