



GRADE 10 PHYSICAL SCIENCES CONTROL TEST  
MEMO

**QUESTION 1**

- 1.1. B ✓✓  
1.2. B ✓✓  
1.3. A ✓✓  
1.4. A ✓✓  
1.5. B ✓✓  
1.6. C ✓✓  
1.7. B ✓✓  
1.8. A ✓✓

[16]

**QUESTION 2**

- 2.1.1 Starts from rest/ $0 \text{ m}\cdot\text{s}^{-1}$  ✓  
Velocity increases at a constant rate ✓  
until he reaches  $2,5 \text{ m}\cdot\text{s}^{-1}$  after 25 s. ✓

**OR**

- Starts from rest/ $0 \text{ m}\cdot\text{s}^{-1}$  ✓  
Constant positive acceleration ✓  
until he reaches  $2,5 \text{ m}\cdot\text{s}^{-1}$  after 25 s. ✓

(3)

- 2.1.2 Constant/uniform velocity ✓  
for another 25 s. ✓

**OR**

- Zero/No acceleration ✓  
for another 25 s. ✓

**OR**

- Velocity remains  $2,5 \text{ m}\cdot\text{s}^{-1}$  in the  
direction of motion ✓  
for another 25 s. ✓

(2)

- 2.2.1 *acceleration* =  $\frac{\Delta v}{\Delta t}$  ✓  
=  $\frac{0-2,5}{100-80}$  ✓  
=  $-0,0625$

$a = 0,063 \text{ m}\cdot\text{s}^{-2}$  ✓ opposite to direction of motion ✓

(4)

- 2.2.2 Length of track = Area between the graph and the time axis ✓  
=  $\frac{1}{2} (2,5) (35+100)$  ✓  
=  $168,75 \text{ m}$  ✓

**OR**

- Length of track = Area of trapezium ✓  
=  $\frac{1}{2} (2,5) (35+100)$  ✓  
=  $168,75 \text{ m}$  ✓

**OR**

- Length of track = Area between the graph and the time axis  
=  $\frac{1}{2} bh + \frac{1}{2} bh + lb$   
=  $\frac{1}{2} (2,5) + \frac{1}{2} (40)(2,5) + (35)(2,5)$  ✓  
=  $31,2 + 87,5 + 50$   
=  $168,75 \text{ m}$  ✓

(4)  
[13]

# Physical Science Memorandum Test 2014

**Kerri Durnell Schuiling, Frances E. Likis**



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chlorophyll is necessary for photosynthesis but accessory pigments collect and transfer energy to chlorophyll although pigments absorb light the wavelengths of light that are not absorbed by

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web in the diagram below you can see the absorption spectra of three key pigments in photosynthesis chlorophyll a chlorophyll b and  $\beta$  carotene the set of wavelengths that a pigment doesn't absorb are reflected and the reflected light is what we see as color

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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