



education

Department of
Education
FREE STATE PROVINCE

PRACTICAL TASK / *PRAKTIESE TAAK*

GRADE 10 / *GRAAD 10*

**PHYSICAL SCIENCES /
*FISIESE WETENSKAPPE***

MEMORANDUM

SEPTEMBER 2018

MARKS: 15 / *PUNTE: 15*

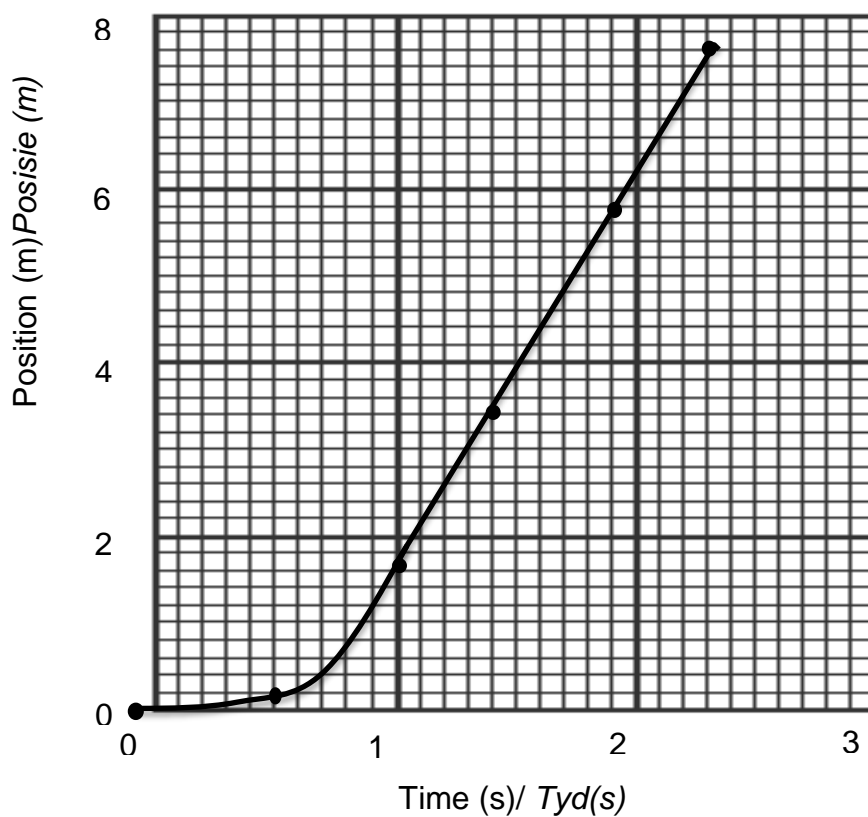
TIME: 30 MINUTES / *TYD: 30 MINUTE*

**This memorandum consists of THREE pages. /
*Hierdie memorandum bestaan uit DRIE bladsye.***

QUESTION 1 / VRAAG 1

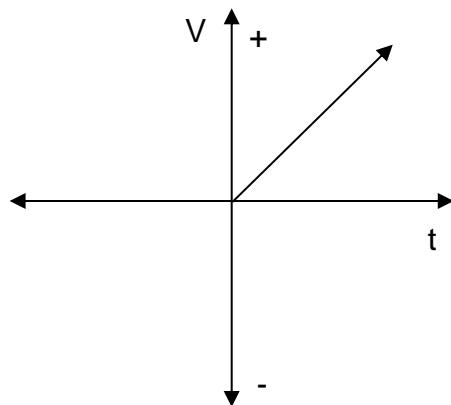
- 1.1 So that dots appears on the paper tape at the same rate as the pin hammer vibrates. ✓ / *Sodat kolletjies teen dieselfde tempo op die tikkerlint verskyn soos die tikkerhamer vibreer.* (1)
- 1.2 To compensate for friction ✓✓ / *Om vir wrywing te kompenseer* (2)
- 1.3.1 A ✓ (1)
- 1.4.1 Time. ✓ / *Tyd* (1)
- 1.4.2

Graph of position versus time / *Grafiek van posisie teenoor tyd*



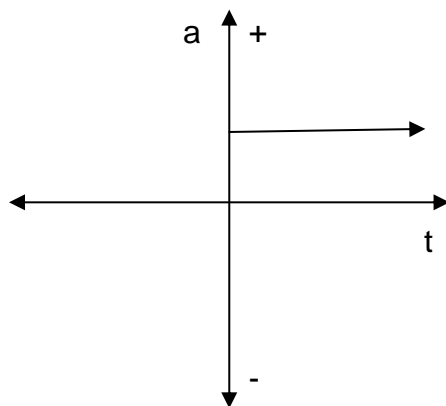
- | | |
|---|---|
| <ul style="list-style-type: none"> • Correct label for both axes ✓ • Any three points plotted correctly. ✓ • All six points plotted correctly. ✓ • Best fit line. ✓ | <ul style="list-style-type: none"> • Korrekte byskrif vir beide asse • Enige drie punte korrek opgeteken. • Al ses punte is korrek geplot. • Beste paslyn |
|---|---|

1.5.1



Criteria for marking / <i>Kriteria vir nasien</i>	
Straight line graph in the correct direction./ <i>Reguitlyngrafiek in die regte rigting.</i>	✓
Correct quadrant / <i>Korrekte kwadrant</i>	✓

1.5.2



Criteria for marking / <i>Kriteria vir nasien</i>	
Straight line graph in the correct direction./ <i>Reguitlyngrafiek in die regte rigting.</i>	✓
Correct quadrant / <i>Korrekte kwadrant</i>	✓

1.5.3 Vector. ✓ Velocity is variable with magnitude and direction. ✓ /
Vektor. *Snelheid* is veranderlik met grootte en rigting.

(2)

GRAND TOTAL / GROOTTOTAAL: 15