# DATA FOR PHYSICAL SCIENCES GRADE 12 PAPER 1 (PHYSICS)

# GEGEWENS VIR FISIESE WETENSKAPPE GRAAD 12 VRAESTEL 1 (FISIKA)

# TABLE 1: PHYSICAL CONSTANTS/TABEL 1: FISIESE KONSTANTES

NAME/NAAM	SYMBOL/SIMBOOL	VALUE/WAARDE
Acceleration due to gravity Swaartekragversnelling	g	9,8 m·s <sup>-2</sup>
Universal gravitational constant Universele gravitasiekonstant	G	6,67 x 10 <sup>-11</sup> N·m <sup>2</sup> ·kg <sup>-2</sup>
Radius of the Earth Radius van die Aarde	R <sub>e</sub>	6,38 x 10 <sup>6</sup> m
Mass of the Earth Massa van die Aarde	M <sub>E</sub>	5,98 x 10 <sup>34</sup> kg
Speed of light in a vacuum Spoed van lig in 'n vakuum	С	3,0 x 10 <sup>8</sup> m-s <sup>-1</sup>
Planck's constant Planck se konstante	h	6,63 x 10 <sup>-34</sup> J·s
Coulomb's constant Coulomb se konstante	k .	9,0 x 10 <sup>9</sup> N·m <sup>2</sup> ·C· <sup>2</sup>
Charge on electron Lading op elektron	e	-1,6 x 10 <sup>-19</sup> C
Electron mass Elektronmassa	m <sub>e</sub>	9,11 x 10 <sup>-31</sup> kg

# **Grade 12 Physical Science Pacesetter**

Wenbin Ji

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