

Grade 11 Physics Study Guide SPH3U1

Unit 1: Kinematics + Intro

How to count significant figures:

- Embedded 0's count (i.e. 101 has 3 sig figs)
- Any numbers that aren't zeros count (i.e. 5263 has 4 sig figs)
- 0's after the decimal place count (i.e. 1.00 has 3 sig figs)
- Trailing 0's (i.e. 2000 has 4 sig figs)
- Numbers after the first non-zero (i.e. 0.0002102 has 4 sig figs)

How to add and subtract numbers with proper sig figs:

The result will have the least amount of numbers after the decimal place.

(i.e. $1.23 + 1.3 + 10.004 = 12.5$)

How to multiply and divide numbers with proper sig figs:

The result will have the least number of sig figs

(i.e. $3.0 \times 12.60 = 38$)

Big 5

$$v_2 = v_1 + a\Delta t$$

$$\Delta d = 0.5v_2 + v_1\Delta t$$

$$\Delta d = v_1\Delta t + \frac{1}{2}a\Delta t^2$$

$$\Delta d = v_2\Delta t - \frac{1}{2}a\Delta t^2$$

$$v_2^2 = v_1^2 + 2a\Delta d$$

Δd = Area under a velocity-time graph

a = Slope of a velocity-time graph

v = slope of a distance-time graph

Vector Addition (tip to tail)

Vector = both magnitude and direction Scalar = only magnitude, no direction

Ex. Time = scalar, displacement = vector

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Raffaela Di Napoli



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Languaging Myths and Realities Qianqian Zhang-Wu, 2021-11-15 Higher education institutions in Anglophone countries often rely on standardized English language proficiency exams to assess the linguistic capabilities of their multilingual international students. However, there is often a mismatch between these scores and the initial experiences of international students in both academic and social contexts. Drawing on a digital ethnography of Chinese international students' first semester languaging practices, this book examines their challenges, needs, and successes on their initial languaging journeys in higher education. It analyzes how they use their rich multilingual and multi-modal communicative repertoires to facilitate languaging across contexts in order to suggest how university support systems might better serve the needs of multilingual international students. *Official Gazette of the United States Patent and Trademark Office*, 2007

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