



BASIC CONCEPTS IN PHYSICS

PHYSICS

- Science that deals with the relationship of matter and energy.

ACCURACY AND PRECISION

- Accuracy
 - Refers to how close a measurement is to the true or accepted value.
- Precision
 - Refers to how close measurements of the same item are to each other.

UNCERTAINTY AND ERRORS

- Scientific Uncertainty
 - Quantitative measurement of variability in the data.
- Errors
 - Differences between observed values and what is true in nature.

VECTORS

PHYSICAL QUANTITIES

- Number used to describe a physical phenomenon quantitatively.

UNITS

- Measuring a quantity is required to be compared with a reference standard

Physical Quantity	SI Unit	Unit Symbol
Length (l)	meter	m
Mass (m)	kilogram	kg
Time (t)	second	s
Temperature (T)	Kelvin, Celsius, Fahrenheit	K, C, F
Speed (s)	meter per second	m/s

SCALAR QUANTITIES

- Physical quantities
- Only consists of a magnitude
- Doesn't have directions
- Examples
 - Mass
 - Distance
 - Time
 - Energy
 - Volume
 - Temperature

VECTOR QUANTITIES

- Physical quantities
- Consists of both magnitude and direction
- Examples
 - Acceleration
 - Displacement
 - Force
 - Weight
 - Gravity

VECTOR ADDITION

- Operation of adding 2 or more vectors together into a resultant vector
- Head-to-tail method
- Obeys the commutative and associative laws

KINEMATICS

MECHANICS

- Motion of bodies under the action of forces
- Includes in which body remains at rest

KINEMATICS

- Subdivision of classical mechanics concerned with the geometrically possible motion of a body or system of bodies without consideration of the forces involved

High School Physics Study Guide Answers

Jianjun Gao



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