



## 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

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