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 (I) | meter | m |
| Mass (m) | kilogram | kg |
| Time (t) | second | |
| 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
 - Moss
 - 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

Michael Rajnik

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