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**January 22, 2018**

**Physical Quantities**

Examples:

* Distance, time, mass, speed, etc

Unit: a standard amount of physical quantities

* Examples
  + Distance: foot (ft), yard (yd), meter (m)
    - Lightyear: distance light travels in one year
      * Speed of light = 18,600 miles/second
  + Time: hour, minute, second, etc

**Basic Physical Quantities**

* Distance
* Time
* Mass

**System of Units**

|  |  |  |  |
| --- | --- | --- | --- |
| Basic Physical Quantities | SI (Système Internationale) | CGS (centimetre–gram–second system) | English (not used in scientific research) |
| Distance | Meter (M) | Centimeter (CM) | Foot (ft) |
| Time | Second (s) | Sec (s) | Sec (s) |
| Mass | Kilogram (kg) | Gram (g) | Slug (no abbrev.) |