

Base Units for SI Measurements

Length - meter (m) - the distance that light travels in a vacuum in $1/299,792,458$ of a second

Mass - kilogram (kg) - the mass of a platinum-iridium alloy cylinder in a vault in France

Time – second (s) - the duration of 9,192,631,770 periods of the radiation emitted in a specified transition between energy levels of cesium-133

Temperature – kelvin (K) - $1/273.16$ of the temperature difference between absolute zero and the triple point temperature of water.