107 Units of Measurements



Objectives

- 1. Identify SI Base Units
- 2. Explain derived units
- 3. Use prefix to express measurements
- 4. Write conversion factors using equalities
- 5. Use conversion factors to change from one unit to another



107.1 SI Base Units

Complete the table below

Property	Unit	Symbol
length		
	kilogram	
time		
	kelvin	
amount of substance		

107.2 Derived Units

What are derived units?

107.3 Prefixes

Identify the factor for the following prefixes:

nano	centi	kilo	milli

107.4 Equalities and Conversion Factors

Write the equality and conversion factors for the following quantities:

kilometer and meter	milliliter and liter
gram and kilogram	nanometer and meter

107.5 Converting between Units

1) 225 mL to L	2) 0.065 L to mL	
3) 450. g to kg	4) 0.0084 kg to g	
5) 463 cm to m	6) 3.54 m to cm	
7) 76 mm to m	8) 0.00069 m to mm	
9) 5.6 cm to mm		
10) 560 nm to cm		