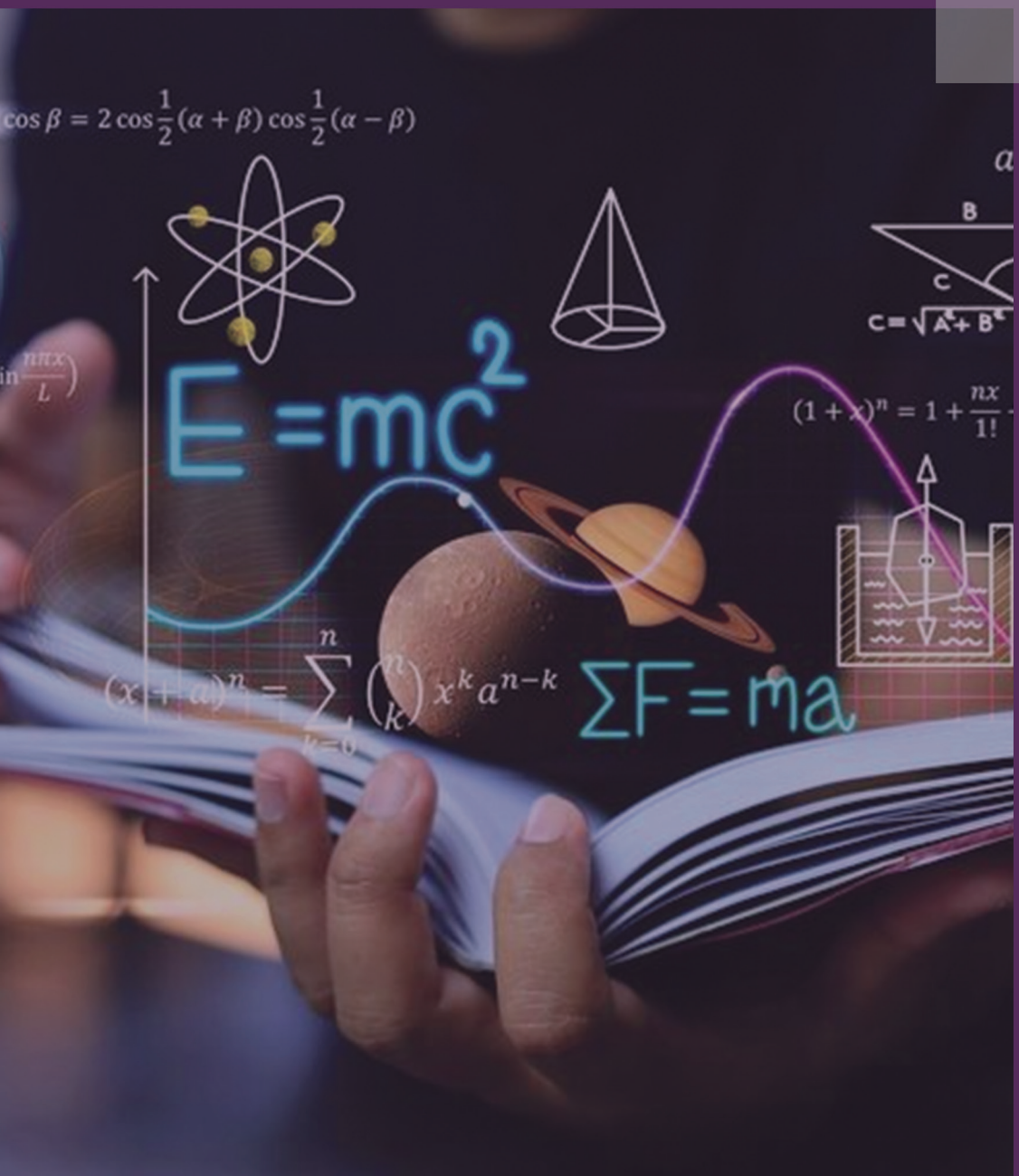
Engineer Meligy

2nd Secondary

Physics

Workbook

2026



— 1st Term —

Measurements

1. Which statement best defines "measurement"?

a) Describing a phenomenon qualitatively
b) Comparing an unknown quantity with a known unit of the same type
c) Counting how many times an event occurs
d) Drawing a graph of results

2. A complete measurement requires three elements. Which set lists them correctly?

a) Phenomenon, model, graph
b) Quantity, unit, measuring tool
c) Unit, experiment, equation
d) Theory, law, constant

3. Which list contains only fundamental physical quantities?

a) Length, time, mass
b) Volume, speed, length
c) Area, acceleration, time
d) Mass, density, speed

4. Which of the following is a derived quantity?

a) Mass
b) Time
c) Speed
d) Length

5. The volume of a cuboid is given by Vol = L1 × L2 × L3. This shows volume is…

a) A fundamental quantity
b) A derived quantity from three lengths
c) A unit in the SI system
d) A measuring tool

6. Which measuring unit is common to all three historical systems (CGS, FPS, MKS)?

a) Meter
b) Second
c) Gram
d) Foot

7. In the MKS system, the unit of mass is the…

a) Pound (lb)
b) Gram (g)
c) Kilogram (kg)
d) Ton (t)

8. In the CGS system, the unit of length is the…

a) Foot (ft)
b) Meter (m)
c) Centimeter (cm)
d) Yard (yd)

9. Which of the following is an SI unit?

a) Liter (L)
b) Ampere (A)
c) Minute (min)
d) Degree Celsius (°C)

10. The SI unit for temperature is the…

a) Degree Celsius (°C)
b) Fahrenheit (°F)
c) Kelvin (K)
d) Rankine (°R)

11. Which pair are both SI units?

a) Mole (mol) and candela (cd)
b) Liter (L) and newton (N)
c) Radian (rad) and joule (J)
d) Minute (min) and watt (W)

12. Two additional SI units specifically used to measure angles are the…

a) Degree (°) and mil
b) Radian (rad) and steradian (sr)
c) Gradian (gon) and degree (°)
d) Turn and degree (°)

13. Best tool to measure the diameter of a thin metal wire with high precision:

a) Ruler
b) Meter tape
c) Stop watch
d) Micrometer

14. Best tool to measure the length of a classroom:

a) Micrometer
b) Metric tape
c) Vernier caliper
d) Roman balance

15. Which set contains only derived quantities?

a) Speed, acceleration, volume
b) Length, time, mass
c) Mass, volume, time
d) Acceleration, time, mass

16. What is meant by the "physical meaning" of an equation?

a) The way numbers are rounded
b) The real-world relationship
c) The graph type used
d) The historical origin

17. In the statement "The race took 15 seconds," which part is the unit?

a) The race
b) Took
c) 15
d) Seconds

18. Which system pairs its length and mass units correctly?

a) FPS: meter and kilogram
b) CGS: centimeter and gram
c) MKS: foot and pound
d) FPS: centimeter and gram

19. If each edge of a box is measured in meters, the SI unit of its volume is…

a) m
b) m^2
c) m^3
d) Liter

20. Which statement about worldwide use of SI is highlighted?

a) SI is rarely used outside physics labs
b) SI is now the global language across science, technology, and daily life
c) SI is limited to Europe
d) SI is abandoned

Today's Reminder

"If it was easy, everyone would've done it; it's the challange what makes it interesting."

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