



Units & Measurements

Chapter: Mechanics • Level ★★★ • Time: 30 min

SCORE

___ / 20

Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Understand: SI Base Units
- ✓ Understand: SI Prefixes
- ✓ Understand: Derived Units
- ✓ Understand: Significant Figures



Section A • Concept Check

• BEGINNER

4 × 1 = 4

1 Convert 7.5 km to meters.

2 Convert 850 g to kg.

3 What does the prefix 'kilo-' mean?

4 What is the SI base unit of mass?



Section B • Problem Solving

• INTERMEDIATE

4 × 3 = 12

5 Convert 2 minutes to seconds.

6 What are the base units that combine to form the joule (unit of energy)?

7 Convert 250 cm to meters.

8 Why do scientists worldwide use the SI system?



Section C • Challenge

• CHALLENGE

2 × 2 = 4

9 What does the prefix 'micro-' mean?

10 Convert 0.5 kg to grams.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/12 C ___/4 **Total ___/20**

Teacher's Signature

Parent's Signature

✂ ANSWER KEY – FOLD OR CUT BEFORE HANDING OUT

1 = 7,500 m 2 = 0.85 kg 3 = 1000 times 4 = The kilogram (kg) | 5 = 120 s 6 = $\text{kg}\cdot\text{m}^2/\text{s}^2$ 7
= 2.5 m 8 = It provides one consistent, universally understood standard for measurement | 9 =
1/1,000,000 10 = 500 g