First Steps Together
Curriculum Unit Overview / Intent

Year Group: KS4 (Year A)	Term: Summer 2

Maths: Metric, Imperial, and Measure

Key Concepts

Understanding and using standard units of measure (metric and imperial)
Converting between metric units (length, mass, capacity, temperature)
Understanding and using approximate equivalences between metric and imperial units
Using and interpreting scales
Applying compound measures
Solving real-life and practical problems
Using decimal notation and appropriate scaling

Prior Knowledge

Recognising and naming common metric and imperial units (cm, m, g, kg, l, ml, inches, feet, pounds, pints)
Counting, reading, and writing numbers up to 1000
Understanding of basic arithmetic operations (addition, subtraction, multiplication, division)
Awareness of place value and decimal notation
Experience with simple measures in everyday contexts

Cross-Curricular Links

Science: Measuring length, mass, temperature, and volume in experiments; interpreting data from graphs
Geography: Reading maps, using scale, interpreting distances
PE: Measuring distances, times, and speeds in athletics
PSHE: Understanding rates of pay, budgeting, and unit pricing in real-life contexts

SMSC & British Values

Promoting accuracy, honesty, and responsibility in measurement and calculation
Appreciating the historical context of imperial and metric systems in the UK
Encouraging respect for different systems and international standards
Supporting collaborative problem-solving and discussion
Developing resilience and perseverance in tackling multi-step problems

Assessment

Ongoing formative assessment through questioning
End-of-topic quiz assessing conversion, application of compound measures, and problem-solving
Functional Skills-style questions embedded throughout lessons
Practical tasks requiring measurement and calculation
Teacher observation and feedback during independent and group work

Adaptations

Use of concrete resources (measuring tapes, scales, jugs, thermometers) for hands-on learners
Visual supports (conversion charts, dual-scale rulers, pictorial representations)
Extension tasks (e.g. multi-step compound measure problems)
Additional practice and repetition
Use of real-life contexts relevant to students' interests

Lesson Objectives

1. Recognise and name standard metric units for length, mass, and capacity
2. Use decimal notation and appropriate scaling with metric units
3. Read and interpret scales on measuring equipment
4. Recognise and use metric units in practical contexts
5. Convert between metric units of length
6. Convert between metric units of mass and capacity
7. Solve problems involving metric units and scaling
8. Recognise common imperial units for length, mass, and capacity
9. Understand and use approximate equivalences between metric and imperial units
10. Convert between metric and imperial units in simple contexts
11. Understand and use the concept of speed as a compound measure
12. Calculate speed in metric and imperial units
13. Apply speed calculations to real-life contexts
14. Apply compound measures to multi-step problems
15. Review and consolidate metric and imperial conversions
16. Apply knowledge to solve functional and real-life problems
17. Complete assessment on metric, imperial, and compound measures
18. Reflect on progress and set targets for future learning

Links to Future Learning

Perimeter, area, and volume calculations using mixed units
Advanced conversions involving compound measures (density, pressure)
Application of measures in GCSE and Functional Skills Level 2 contexts
Interpreting and constructing graphs involving units and rates

Key Vocabulary

Metric
Imperial
Unit
Measure
Length
Mass
Weight
Capacity
Volume
Temperature
Scale
Conversion
Equivalence
Centimetre (cm)
Metre (m)
Kilometre (km)
Gram (g)
Kilogram (kg)
Litre (l)
Millilitre (ml)
Inches (in)
Feet (ft)
Pound (lb)
Ounce (oz)

Possible Enrichment:

Cooking or baking sessions requiring conversion of recipes between metric and imperial units; Sports day measuring distances, times, and calculating speeds.