Crosby Primary School	Mathematics Medium Term Plan Year 5 Summer Term	Unit 5 Convert Units of Measure (2 Weeks)

National Curriculum

- Convert between different units of metric measure (km/m, m/cm/mm, g/kg, l/ml)
- Understand and use approximate equivalences between metric units and imperial s
  Units (eg. inches, pounds and pints).
  Solve problems involving converting between units of time.

Ready to Progress

- 5NPV–1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.
- 5NPV–4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.
- 5NPV–5 Convert between units of measure, including using common decimals and fractions.

Times Tables

- Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.
- Use multiplication and division facts to derive associated facts.
- Develop multiplicative reasoning - links between multiplication, division and fractions

Ready to Progress

- 5NF–1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.

Concept Sequence

- Kilograms and kilometres – kilo means one thousand. Convert m to km, g to kg and vice versa. Know conversions of simple fractions.
- Millimetres and millilitres – milli means one thousandth. Convert m to mm and l to ml. Solve problems.
- Convert units of length – mm, cm and m. Link to multiplying/dividing by 10, 100 and 1000.
- Convert between metric and imperial units – know 1kg is approx. 2.2lbs. 1 inch is approx.. 2.5 cm etc. Use symbol for approximately equal to.
- Converting units of time – including years, months, weeks, days, hours, minutes and seconds. Use bar modelling. Use time lines, calendars, clocks. NB. Time is not a decimal.
- Calculate with timetables – recap 12/24 h clock times. Use number lines to calculate duration.

Compare the measurements using <, > or =

5 kg ◯ 4,500 g   12 kg ◯ 12,000 g

3.7 km ◯ 370 m   37,000 m ◯ 3.7 km

Vocabulary

Estimate, approximate, approximately, convert
Measure, measurement, metric
Length, m, cm, mm, km
Mass, g, kg
Capacity, ml, l

Amir buys 2,500 grams of potatoes and 2,000 grams of carrots.

78 p per kg   £1.46 per kg

He pays with a £5 note. How much change does he get?
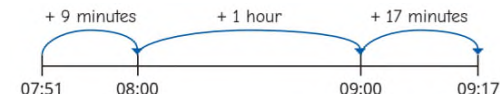
New Vocabulary

imperial
inch, foot, feet, yards, miles
ounce, pound, tonnes
pints, gallons

Planning Links

White Rose Scheme of Work:

https://assets.whiterosemaths.com/new-schemes/Year%205%20Summer%20Block%205%20SOL%20Converting%20units.pdf

White Rose, Power Maths, Maths No Problem, Aspire Maths

+ 9 minutes   + 1 hour   + 17 minutes

07:51   08:00   09:00   09:17

Resources

PV Chart, Number lines
Gordons Maths Games, Mathletics, TTRockstars
BBC Super Movers

https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9q

1 pint ≈ 568 ml

▶ 2 pints ≈ _____ ml   ▶ $\frac{1}{2}$ pint ≈ _____ ml

▶ _____ pints ≈ 56.8 ml   ▶ _____ pints ≈ 5,680 ml