

Crosby Primary School

Mathematics Medium Term Plan Year 6 Summer Term

Unit 1 Ratio (3 Weeks)

National Curriculum

- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Ready to Progress

- 6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number)
- 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and placevalue understanding.
- 6AS/MD-3 Solve problems involving ratio relationships.

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

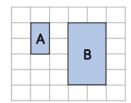
Concept Sequence

- Add or multiply? look at relationships between numbers. Look at double number lines.
- Use ratio language ratios show relationship between two values and describes how they are related. Make simple comparisons.
- Ratio symbol colon notation. Notation relates to the order of parts. Calculating ratio – answer worded questions. Draw bar models.
- Link with fractions link 1:2 to ½. Use objects and diagrams.
- Scale drawings consider what each square represents. Make shapes x times bigger.
- Scale factors Calculating scale factors use similar shapes to determine scale factor – use multiplication/division facts.
- Similar shapes work systematically to see if all sides have been enlarged by same scale factor.
- Solve ratio problems use bar models.
- Proportion problems use double number lines. One step than two step problems.
- Recipes adapt recipes including multi-step situations. Be wary of converting measures.

Rectangle	Length	Width
Α	5 cm	2 cm
В		4 cm
С	25 cm	
D		18 cm

Vocabulary

Ratio Compare, colon Scale, scale factor Times bigger/larger Similar, parts,



Planning Links

proportion

White Rose Scheme of Work:

https://assets.whiterosemaths.com/new-schemes/Year%206%20Spring%20Block%201%20SOL%2
ORatio.pdf

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

Resources

Cubes, Bar Models Gordons Games, Mathletics, TTRockstars BBC Super Movers

 $\frac{https://www.bbc.co.uk/teach/supermovers/ks2-}{collection/zr4ky9q}$

