Crosby Primary School

Mathematics Medium Term Plan Year 5 Summer Term

Unit 6 Measure: Volume (1 Week)

National Curriculum

- Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]

Ready to Progress

- 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.

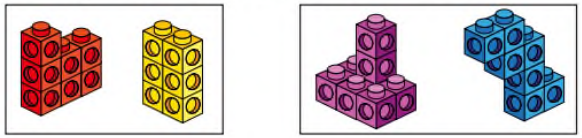
Concept Sequence

- Cubic centimetres - Volume is the amount of space a solid takes up. Introduce cm3. Make solid shapes using cm cubes. Look at conservation (different shapes, same volume).
- Compare Volume – build shapes and compare directly.
- Estimate Volume – check by building.
- Estimate Capacity – Note difference between volume and capacity. Capacity is the amount a container can hold. Use l and ml. Use practical equipment such as water/rice.

What is the most appropriate capacity of a large bottle of fizzy drink?

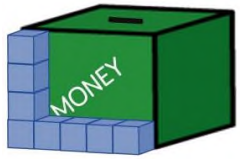
20 ml	200 ml
2 litres	20 litres

In each pair, which shape has the greater volume?



Vocabulary

Width, height, length, cm
Volume, cubed, cm cubed
Capacity
Litres, millilitres, centimetre
Names of 3D shapes



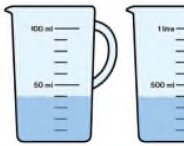
Planning Links

White Rose Scheme of Work:
https://assets.whiterosemaths.com/new-schemes/Year%205%20Summer%20Block%206%20SOL%20Volume.pdf
Power Maths, White Rose, Maths No Problem, Aspire Maths

Resources

Cubes, containers, water, rice
Gordons Maths Games, Mathletics, TTRockstars
BBC Super Movers
https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9q

Compare the capacity and the volume. Use the sentence stems to help you.



Container ___ has a capacity of ___ ml
The volume of water in container ___ is ___ cm^3