Varied Fluency Step 4: Estimate Capacity

National Curriculum Objectives:

Mathematics Year 5: (5M8) <u>Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]</u> Mathematics Year 5: (5M9a) <u>Use all four operations to solve problems involving measure</u> [for example, length, mass, volume, money] using decimal notation, including scaling

Differentiation:

Developing Questions to support estimating capacity using the same containers in various sizes and volumes that are all in multiples of 100ml .

Expected Questions to support estimating capacity using similar containers in various sizes and volumes that are all in multiples of 50ml .

Greater Depth Questions to support estimating capacity using different containers in various sizes and volumes that are all in multiples of 5ml.

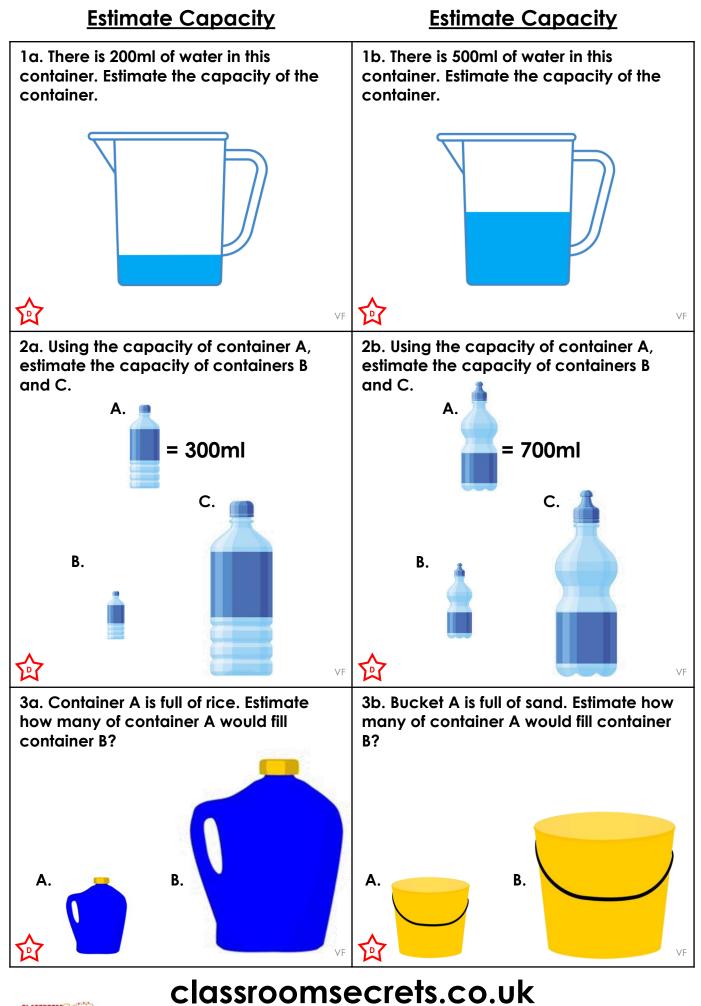
More <u>Year 5 Volume</u> resources.

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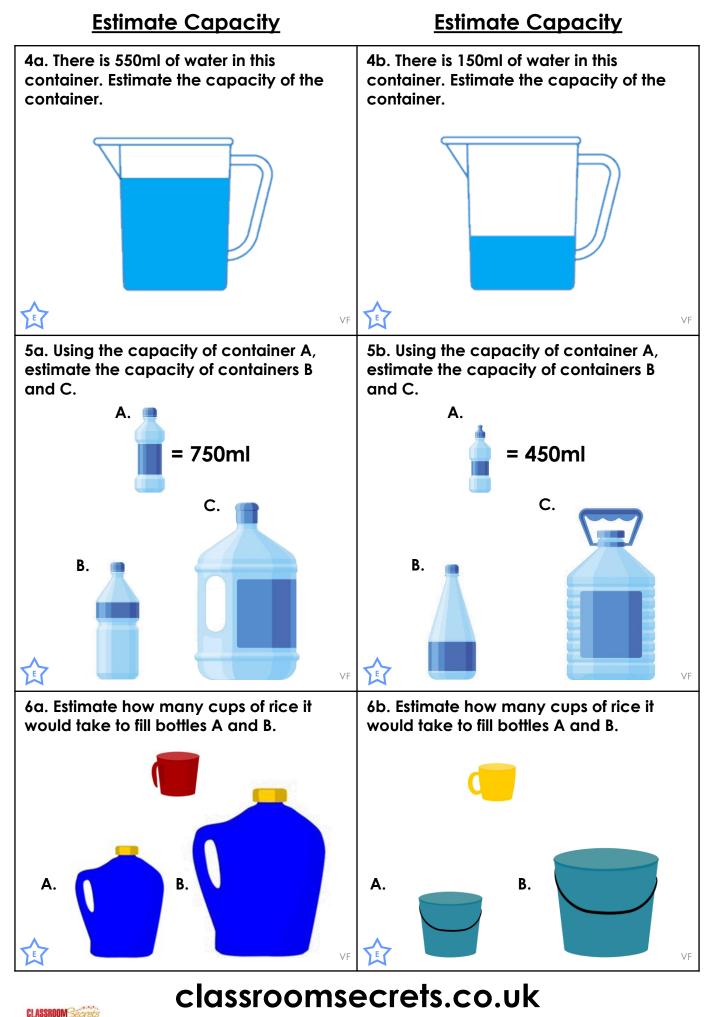
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Varied Fluency – Estimate Capacity – Teaching Information



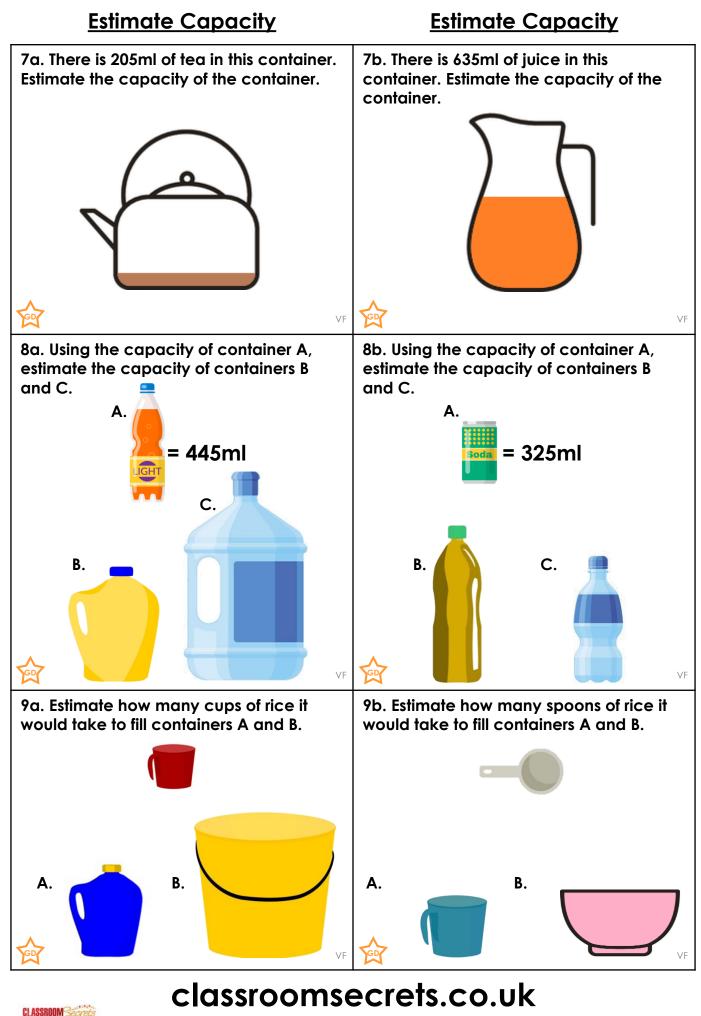
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Varied Fluency – Estimate Capacity – Year 5 Developing



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Varied Fluency – Estimate Capacity – Year 5 Expected



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Varied Fluency – Estimate Capacity – Year 5 Greater Depth

Varied Fluency Estimate Capacity

Developing

1a. Various possible answers around 1,000ml.

2a. B: Answers around 100ml; C: answers around 1,200ml.

3a. Various possible answers around 8.

Expected

4a. Various possible answers around 650ml.

5a. B: Answers around 1,000ml; C: Answers around 4,000ml.

6a. A: Various possible answers around 12;B: Various possible answers around 24.

Greater Depth

7a. Various possible answers around 1,100ml.

8a. B: Answers around 1,335ml; C: Answers around 4,005ml.

9a. A: Various possible answers around 4;

B: Various possible answers around 24.

Varied Fluency Estimate Capacity

Developing

1b. Various possible answers around
1,000ml.
2b. B: Answers around 200ml; C: answers around 1,400ml
3b. Various possible answers around 8.

Expected

4b. Various possible answers around 450ml.

5b. B: Answers around 1,350ml; C: Answers around 4,500ml.

6b. A: Various possible answers around 4;B: Various possible answers around 18.

Greater Depth

7b. Various possible answers around 950ml. (Discussion may arise over the shape of the jug narrowing and how this affects capacity).

8b. B: Answers around 975ml; C: Answers around 650ml.

9b. A: Various possible answers around 4;B: Various possible answers around 12.



Varied Fluency – Estimate Capacity ANSWERS