Varied Fluency Step 1: What is Volume?

National Curriculum Objectives:

Mathematics Year 5: (5M8) <u>Estimate volume [for example, using 1 cm3 blocks to build</u> cuboids (including cubes)] and capacity [for example, using water]

Differentiation:

Developing Questions to support measuring volume in cm³, up to 12cm³, using cubes/cuboids or liquid volumes where scales are in multiples of 10 or 100 and measurements fall on marked increments.

Expected Questions to support measuring volume in cm³, up to 24cm³, using cubes/cuboids or liquid volumes where scales are in multiples of 10 or 100 but not all increments are marked.

Greater Depth Questions to support measuring volume in cm³ up to 24cm³ using compound 3D shapes or liquid volumes where scales are in multiples of 10 or 100 but not all increments are marked and some measurements fall between increments.

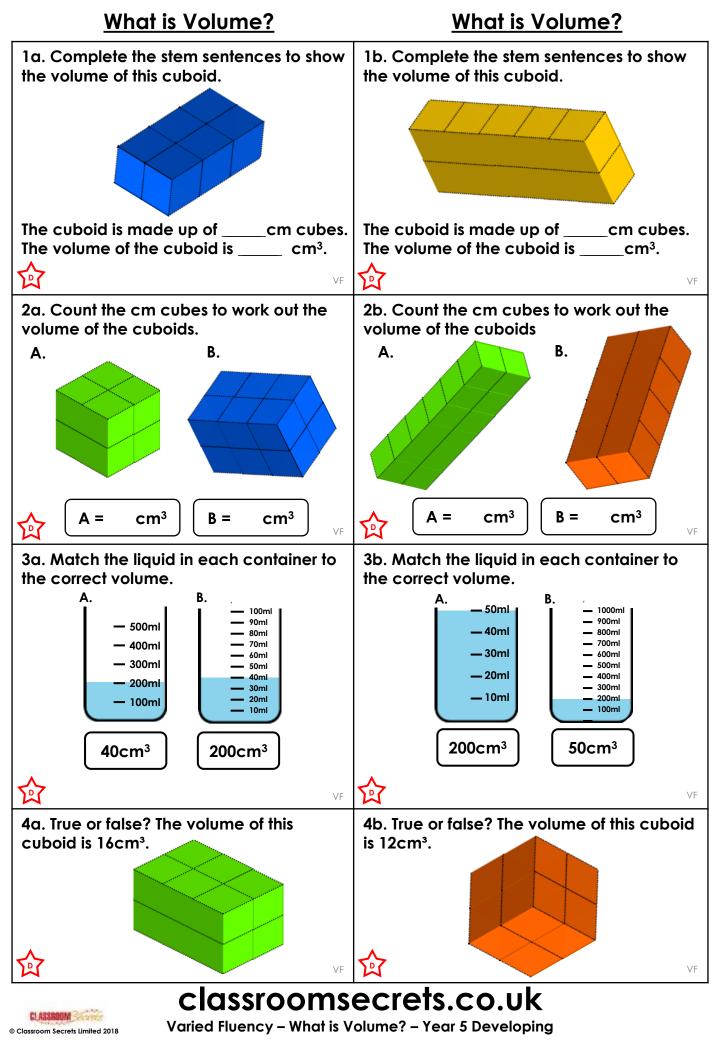
More <u>Year 5 Volume</u> resources.

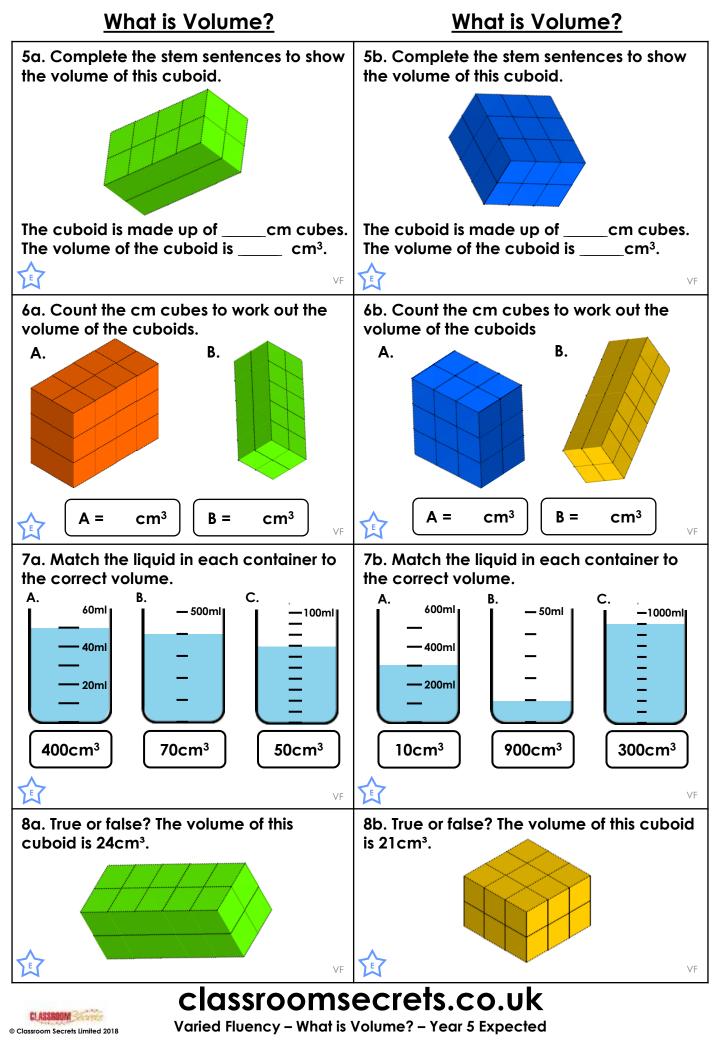
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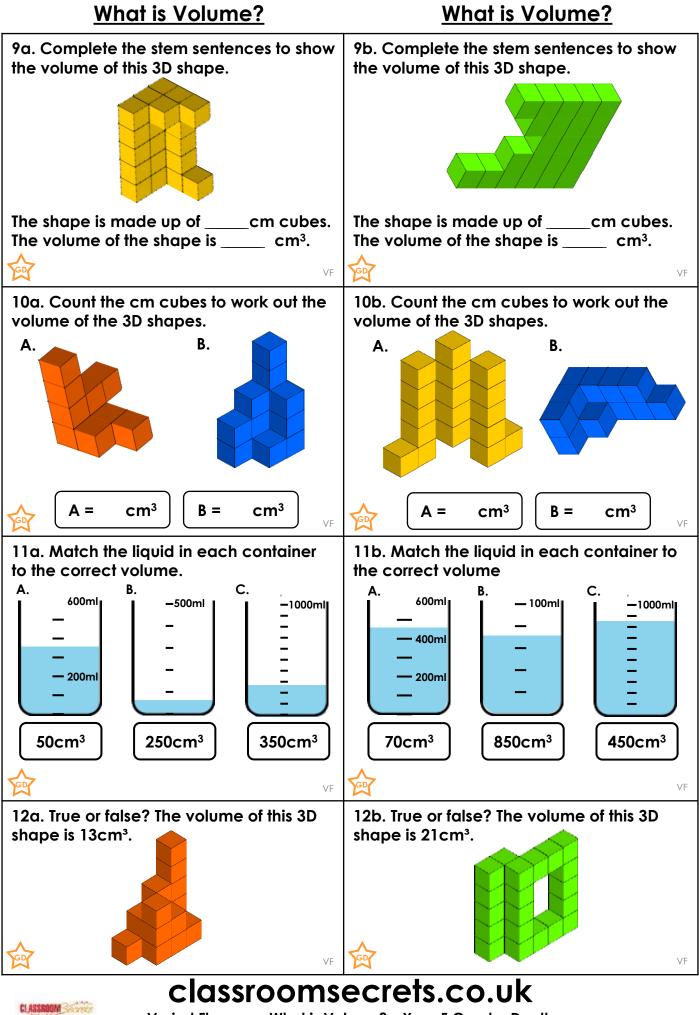


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Varied Fluency – What is Volume? – Teaching Information







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Varied Fluency – What is Volume? – Year 5 Greater Depth

Varied Fluency What is Volume?

Developing

1a. The cuboid is made out of <u>6</u> cm cubes.
The volume of the cuboid is <u>6c</u>m³
2a. A = 8cm³; B = 12cm³
3a. A. 200cm³; B. 40cm³
4a. False. It is 12cm³

Expected

5a. The cuboid is made out of <u>16</u> cm cubes. The volume of the cuboid is <u>16</u> cm³.
6a. A = 24cm³; B = 20cm³.

7a. A. 50cm³; B. 400cm³; C. 70cm³. 8a. False. It is 20cm³

Greater Depth

9a. The shape is made out of <u>23</u> cm cubes.

The volume of the shape is <u>23</u> cm³ 10a. A = 10cm³; B = 14cm³. 11a. A. 350cm³; B. 50cm³; C. 250cm³. 12a. False. It is 17cm³

Varied Fluency What is Volume?

Developing

1b. The cuboid is made out of <u>10</u> cm cubes. The volume of the cuboid is <u>10</u> cm³
2b. A = 12cm³; B = 8cm³
3b. A. 50cm³; B. 200cm³
4b. False. It is 8cm³

Expected

5b. The cuboid is made out of $\underline{18}$ cm cubes. The volume of the cuboid is $\underline{18}$ cm³.

6b. A = 18cm³; B = 24cm³. 7b. A. 300cm³; B. 10cm³; C. 900cm³. 8b. False. It is 18cm³

Greater Depth

9b. The shape is made out of <u>22</u> cm cubes.
The volume of the shape is <u>22</u> cm³
10b. A = 18cm³; B = 14cm³.
11b. A. 450cm³; B. 70cm³; C. 850cm³.
12b. False. It is 24cm³



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Varied Fluency – What is Volume? ANSWERS