**S1 Home Learning Pack for Mr Heaney’s, Miss Gilluley’s, Mrs McKendricks and**

**Mr Early’s Classes**

**Week Beginning: Monday 27th April**

**Task 1: Sumdog**

You should all have your Sumdog logins and passwords. If you don’t have these please get in touch with the school and we will give you them. Your aim is to work on this for a total of 1 hour. You should break this up into 2 sessions of 30 minutes each or whatever timescale suits you best. Your teachers will be able to monitor this.

**Task 2: Area of a Composite Shape Practice**

The work we would be doing in class this coming week would be to do with the Volume of Cubes and Cuboids. I have linked below, two excellent instructional videos to help teach you this process.

[Volume of cuboids and cubes](https://corbettmaths.com/2012/08/09/volume-of-cuboids-and-cubes/)

Please take the time to copy the examples in the videos into your jotters, this will help with questions in the future. The exercises below should allow you to practice the methods from the examples in the videos. There are answers attached at the end of this document for you to check your work.

[Volume of a cuboid](https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cuboid-pdf1.pdf)

[Volume of a Cuboid (extra practice) Exercise 3B and 4B pages 36-38](https://www.larkhall.s-lanark.sch.uk/docs/maths_s1/Pupil_Course_Booklets_3rd_Level_Block_3.pdf)

For the extra work, you need to know the following for exercise 4B:

$$1cm^{3}=1ml$$

$$1000ml=1 litre$$

Miss out question 2 in Ex4B

**Task 3: Volume Challenge Questions**

I have also linked below some Example Exam Questions and Rich Tasks for Volume to challenge your knowledge.

[Exam Type Questions](https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cuboid-pdf.pdf)

[Cuboid challenge (Rich Task 1)](https://nrich.maths.org/cuboidchallenge)

[Changing Areas, Changing Volumes (Rich Task 2)](https://nrich.maths.org/7535)

I have put links to the answers at the end of the booklet.

*Good Luck and Stay Safe!*

**Answers**

[Volume of a Cuboid Answers](https://corbettmaths.com/2016/12/20/volume-of-a-cuboid-answers/)

Volume of a Cuboid (extra practice) Answers can be found below

|  |
| --- |
| **Exercise 3B** |
| 1) | 210 m3 | 2) | 80 m3 |
| 3) | 240 m3 | 4) | 378 m3 |
| 5) | 0.48 m3 | 6) | 0.027 m3 |
| 7) | 1.08 m3 or 1,080,000 cm3 | 8) | 63 cm3 or 63,000 mm3 |
| **Exercise 4B** |
| 1a) | 60,000 cm3 = 60,000 ml = 60litres | b) | 350 cm3 = 350 ml = 0.35litres |
| c) | 5,250 cm3 = 5,250 ml = 5.25litres | d) | 10,404 cm3 = 10,404 ml = 10.404litres |
| 3a) | 24,000 cm3 | b) | 24litres |
| c) | 384,000 cm3 | d) | 384litres |
| e) | 16 cartons |  |  |
| 4a) | 336,000 cm3 | b) | 336litres |
| c) | 56minutes |  |  |
| 5) | 8cm |  |  |

[Exam Type Questions Answers](https://corbettmaths.com/wp-content/uploads/2015/03/volume-of-a-cuboid.pdf)

**Rich Task Answers**

[Cuboid challenge (Rich Task 1 solution)](https://nrich.maths.org/cuboidchallenge/solution)

[Changing Areas, Changing Volumes (Rich Task 2 solutions)](https://nrich.maths.org/content/id/7535/philip%20solution.pdf)