

HOME LEARNING

Year 7

Home Learning 2

Focus for this week: Measuring lengths

Essential learning:	<ul style="list-style-type: none">• Measure length in cm and m
Practising:	<ul style="list-style-type: none">• Know how big a centimetre and a metre is• Measure in centimetres more accurately (e.g. 6.1cm)
Learning about:	<ul style="list-style-type: none">• Convert between mm, cm, m and km• Convert between other metric units of measure (e.g. g and kg)
Extension:	<ul style="list-style-type: none">• Comparing measurements

Tasks:

- Complete at least two worksheets
- Login to MyMaths and complete MyMaths tasks
- Spend 10 minutes a day on Times Table Rock Stars; Numbots OR Sumdog
- Please email a photo of any worksheets or poster you complete to the email address below.
This will earn you a golden token.

Additional activities:

- Draw a picture of a house that is 6.4cm high
- Draw a garden that is 9.2cm wide and 14.8cm long
- Play 'Countdown' (e.g. <https://nrich.maths.org/6499>) on your own or with someone else
- Play Yahtzee
- **More challenge:** Go to <https://nrich.maths.org/2419> for a problem looking at tree height.
- **More challenge:** Go to <https://nrich.maths.org/8318> to investigate 'Olympic Measures'.

If you have queries about this work, please contact me at acroft@bower-grove.kent.sch.uk

20/4/20 Maths Worksheet 1: Measuring length

If you do not have a ruler or a tape measure, then you can use your little finger to measure in cm

Measure in whole cm (video): <https://www.youtube.com/watch?v=tuBLuIW1U70&t=19s>

Measure more accurately (video): <https://www.youtube.com/watch?v=WHqns716qiE>

Choose 10 things from around your house that are less than 30cm. Measure them in as many units as you can and as accurately as you can (e.g. my phone is 15.6cm long; 156mm long or even 0.156m long).

Item name (e.g. phone)	Measurement in cm be as accurate as you can.	Extension: Show other measures that mean the same thing (e.g. 156mm)

Email completed worksheets to me at acroft@bower-grove.kent.sch.uk . Each good attempt earns a golden token.

20/4/20 Maths Worksheet 2: How big is a mm; How big is a cm?; How big is a m?

Design a poster that shows things that measure the same as a mm, a cm, and a m.

Extension: If you are feeling confident with mm, cm and m then investigate the length of a km too (as part of your daily exercise)

1. Listen to this song <https://www.youtube.com/watch?v=djTNUp4XIRo&t=31s>
2. Design a poster that helps other people understand the sizes of a mm, a cm, a m (and a km)
3. Please take a photo of your completed poster and email to Mr. Croft (acroft@bower-grove.kent.sch.uk) or Mrs. Coleman (jcoleman@bower-grove.kent.sch.uk) or both of us! We would love to see it!

20/4/20 Maths Worksheet 3: Converting metric measurements

Task A: Converting

Use this table to help you answer the questions below:

1cm = 10mm	1m = 100cm	1000m = 1km
1cm = 0.01m	1m = 1000mm	

10cm =mm

2cm =mm

12cm =mm

3m =cm

3cm =mm

3km =m

60mm =cm

60m =cm

6m =mm

21m =cm

2.3cm =mm

59mm =cm

4.1m =cm

4.1km =m

4.1cm =mm

6.23m =cm

6.231km =m

6.231m =mm

Extension challenges:

4cm =m

23cm =m

2.3mm =m

4m =km

4cm =km

4mm =km

346mm =cm

346mm =m

346mm =km

Task B: Comparing

Make the units the same and then compare using <, > or = signs

Example: 4.1cm 54mm

Convert then compare: 41mm<..... 54mm

7m.....64cm	7mm.....64cm	7km.....64m
6m.....64cm	6mm.....64cm	6km.....6400m
2.45m.....642cm	2.5cm.....25mm	Answer is < or > (not =) 2.45km.....2045m

Email completed worksheets to me at acroft@bower-grove.kent.sch.uk . Each good attempt earns a golden token.

20/4/20 Maths Worksheet 4: Converting metric measurements (weight and capacity)

Task A: Converting

If you are stuck: Google the first measurement to help you find the second

Use this table to help you answer the questions below:

Weight:	1kg = 1000g	1 tonne = 1000kg	1000mg = 1g
Capacity:	1 l = 1000ml	1 cl = 100ml	1ml = 1cm ³

2000g =kg 2000mg =g 2000 kg =tonnes

3kg =g 3g =mg 3 tonnes =kg

2.5kg =g 2.5g =mg 2.5 tonnes =kg

6000ml =l 6000ml =cl 6000ml =cm³

4 l =ml 4 cl =ml 4cm³ =ml

4.1 l =ml 4.1 cl =ml 4.1cm³ =ml

Extension challenges:

2cl =ml 2cl =l 2cm =cm³

423ml =cl 423cl =l 423cm³ =cl

2346mg =g 0.421 tonnes =kg 0.041 kg =g

Task B: Comparing

Make the units the same and then compare using <, > or = signs

Example: 41ml 4cl

Convert then compare: 41ml<..... 400 ml

47ml.....49cm ³	7kg.....3 tonnes	2.23 kg.....2 089 g
6301 g.....6.301 kg	6000mg.....7g	6kg.....6.4g
245 cl.....24.5 ml	245 cl.....245 l	Answer is < or > (not =) 3.19kg.....3019g