Year 4 Maths – week beginning 8.6.2020					
Theme	Mass, Volume and Length Lesson 6 of 11 Converting units of volume	Mass, Volume and Length Lesson 7 of 11 Measuring Height	Mass, Volume and Length Lesson 8 of 11 Measuring Length	Mass, Volume and Length Lesson 9 of 11 Converting units of length	Mass, Volume and Length Lesson 10 of 11 Converting units of length
Factual fluency (to aid fluency)	Practise comparing decimals on a number line. (answer 10 questions)	Practise placing decimals on a number line (answer 10 questions)	Practise finding the perimeter of rectangles (answer 10 questions)	Practise comparing and converting different units of measure (answer 10 questions)	<u>Which unit of length is most</u> <u>appropriate?</u> (answer 10 questions)
Problem/ activity of the day Remember, just like in class, you can still show the depth of your knowledge LINK	(Lesson 1 resources below) MAKING LINKS: Last week, you learnt how to find the volume of a liquid in a container in hundredths. Today you are going to find approximate volume to the nearest 100ml. THINK: (support below) Can you help me with this problem? 2 pints= 1136ml Child A says, "It is about 1 I!" Child B says, "It is about 2 I!" Child B says, "It is about 1.1 I!" Child B says, "It is about 1.2 I!" Who is correct? Our problem is on <u>textbook</u> page 103. Look at it now. SEE: (model below) Our problem and the solution are shown on page 103-105 in your textbook. Watch the lesson video_here to help you. DO: Use what you have learnt today to help you solve: Part 1: questions from textbook page 106. Check your answers before moving onto part 2. Part 2: Workbook, Chapter 10, Worksheet 6, Page 75-76.	(Lesson 2 resources below) MAKING LINKS: Yesterday, we learnt how to find the approximate volume of a liquid to the nearest 100ml. Today we are going to use our decimal understanding to measure height in metres. THINK: (support below) Child A says he is 1.7 m tall. Child B says he is 1.48 m tall. Child C says he is 1.48 m tall. Child D says he is 1.45 m tall. Explain how each child arrives at his or her conclusion. Who is correct? Our problem is on <u>textbook</u> page 107. Look at it now. SEE: (model below) Our problem and solution are shown on page 108 and 109 of your textbook. DO: Use what you have learnt today to help you solve: Part 1: questions from textbook page 111. Check your answers before moving onto part 2. Part 2: Workbook, Chapter 10, Worksheet 7, Page 77-78.	(Lesson 3 resources below) <u>MAKING LINKS:</u> Yesterday, we learnt how to use our decimal understanding to measure height in metres. Today, we are doing to use our decimal understanding to help us measure length in metres. THINK: (support below) This is not to scale! Is the perimeter of the triangle more than 20cm? Our problem is on <u>textbook</u> page 112. Look at it now. SEE: (model below) Our problem and solution are shown on page 112 and 113 of your textbook. DO: Use what you have learnt today to help you solve: Part 1: questions from textbook page 114 and 115. Check your answers before moving onto part 2. Part 2: Workbook, Chapter 10, Worksheet 8, Page 79-80.	(Lesson 4 resources below) MAKING LINKS: Yesterday, we learnt how to use our understanding of decimals to measure length in metres. Today, we are learning to convert between centimetres and metres. You will need to remember your multiplying by 100 knowledge. THINK: (support below) This table shows how far six athletes jumped. Jumper 1 7.78m Jumper 2 8.12m Jumper 3 8m 1cm Jumper 4 8.10m Jumper 5 7.70m Jumper 6 8.07m Who jumped further, Jumper 3 or Jumper 4? Our problem is on textbook page 116. Look at it now. SEE: (model below) Our problem and solution are shown on page 116-118. Please watch the video here for an explanation. DO: Use what you have learnt today to help you solve: Part 1: questions from textbook page 118 and 119. Check your answers before moving onto part 2. Part 2: Workbook, Chapter 10, Worksheet 9, Page 81-82.	(Lesson 5 resources below) <u>MAKING</u> LINKS: Yesterday, we learnt how to convert between centimetres and metres using our knowledge of multiplying by 100. Today, we are learning to convert between metres and kilometres (km). You will need to remember your multiplying by 1000 knowledge. <u>IHINK: (support below)</u> After 20 minutes of a 10 km race: <u>Child A</u> Completed 7 km 20 m Child B Completed 7.2 km Who was ahead in the race after 20 minutes, Child A or Child B? Our problem is on <u>textbook</u> page 120. Look at it now. <u>SEE: (model below)</u> Our problem and solution are shown on page 120- 121. Please watch the video <u>here</u> for an explanation. <u>DO:</u> Use what you have learnt today to help you solve: Part 1: questions from textbook page 121. Check your answers before moving onto part 2. Part 2: Workbook, Chapter 10, Worksheet 10, Page 83-84.
Methods, tips, clues & checks	Day 1 resources and answers below	Day 2 resources and answers below	Day 3 resources and answers below	Day 4 resources and answers below	Day 5 resources and answers below

See below for resources to support you to THINK-SEE-DO





DAY 2 RESOURCES	<u>S</u>	See Check the solution on pages 108	-109 of your textbook.	
1	Child A says he is 1.7 m tall. Child B says he is 1.52 m tall. Child C says he is 1.48 m tall	1 m = 100 cm	1 m = 100 cm	
1.5 m	Child D says he is 1.45 m tall.	1 m	10 cm	
1.4 m 1.3 m	Explain how each child arrives at his or her conclusion. Who is correct?	10cm 10cm 10cm 10cm 10cm 10cm 10cm 10cm	1 cm	
	Look at page 107 of your textbook now. Be sure to read all of the information as	10 cm = 0.1 m	1  cm = 0.01  m	
Do         Part 1:         Textbook page 111, questions a, b and c.         Check your answers below.         Part 2:         Workbook, Chapter 10, Worksheet 7, Page 77-78.         Remember to use number lines to help you		1.5 m 1.4 m 1.3 m 1.3 m	C is correct. Tan is 2cm below 1.5m therefore he cm tall or 1.48 m. A mistake did Child A make? A thinks that 1 cm is 0.1. now that 1 cm = 0.01 m. A also counted on from 1.5 m rather counting back. B mistake did Child B make? B counted on from 1.5 m. nould count back from 1.5m. D mistake did Child D make? D thinks that any height between and 1.5 m is 1.45 m. not case.	



<u>DAY 3 RESOURCES</u> <u>Think</u>	It is really important you use the	See Check the solution on p	ages 112-113 of your textbook.	
	textbook for today's problem. This is just an example and is not to scale. You may get a different answer if you use this	What is perimeter? 2 m	The perimeter is the distance around the outside of a two-dimensional shape.	
	as your example.	2 m	For this rectangle the perimeter would be:	
	Turn to page 112 now.	Broblom	1 m + 1 m + 2 m + 2 m = 6 m	
This is 10cm	<u>Problem</u> Is the perimeter of the triangle more than 20cm?		As you can see, length of RY is 10.7 cm. This means that there are 10 whole cm measured and then there is part of a cm between 10 cm and 11 cm. There is 0.7 cm over 10 cm so	
Do Port 1:			this means that the length of RY is 10.7 cm in	
Textbook page 114 and	115, questions 1, 2 and 3.			
<u>Part 2:</u>		10.7cm 10cm		
Workbook, Chapter 10, V	Vorksheet 8, Page /9-80.	As you can see, length	of RT is 7.2 cm.	
Remem	ber to use a ruler to help you!	This means that there are 7 whole cm		
Kemember to use a ruler to help you!		between 7 cm and 8cm. There is 0.2 cm		
		over 7 cm so this mean of RT is 7.2 cm in total.	s that the length	
			As you can see, length of YT is 8.5 cm. This means that there are 8 whole cm measured and then there is part of a cm between 8 cm and 9 cm. There is 0.5 cm over 8 cm so this means that the length of YT is 8.5 cm in total.	
		· · · · · · · · · · · · · · · · · · ·	If we approximate each length, we can clearly see that the perimeter is longer than 20 cm.	
			10 cm + 7 cm + 9 cm = 26 cm	

26 cm > 20 cm



7.2 cm

DAY 4 RESOURCES Think	See Check the solution on pages 116-118 of your textbook.
This table shows how far six athletes jumped.         Jumper 1       7.78m         Jumper 2       8.12m         Jumper 3       8m 1cm         Jumper 4       8.10m	Please watch this video <u>here</u> for an explanation of each conversion. 1 m = 100 cm 1 m = 100 cm
Jumper 57.70mJumper 68.07m	10 cm is 1 tenth of a meter1 cm is 1 hundredth of a meter10 cm = 0.1 m1 cm = 0.01 m
Do Part 1: Textbook page 118 and 119, questions 1 and 2. Check your answers below.	8.10 m = cm 1 m = 100 cm 1 m = 100 cm 8 m = 800 cm + 0.10 m = 10 cm 8.10 m = 810 cm 1 m = 810 cm 1 m = 810 cm 1 m = 100 cm 1 m = 10 cm 1 m = 100 cm 1 m = 100 cm 2 m = 810 cm
Workbook, Chapter 10, Worksheet 9, Page 81-82.	8.12  m = 100  cm $7.70  m = 100  cm$ $1  m = 100  cm$ $0.10  m = 10  cm$ $7  m = 700  cm$ $+ 0.02  m = 2  cm$ $7.70  m = 70  cm$ $8.12  m = 812  cm$ $7.70  m = 770  cm$
	8.07 m = cm 1 m = 100 cm 8 m = 800 cm + <u>0.07 m = 7 cm</u> 8.07 m = 807 cm



#### DAY 5 RESOURCES

### <u>Think</u>

After 20 minutes of a 10 km race:

Child A	Completed 7 km 20 m
Child B	Completed 7.2 km

Who was ahead in the race after 20 minutes, Child A or Child B?

## <u>Do</u>

<u>Part 1:</u> Textbook page 121

Check your answers below.

### <u>Part 2:</u>

Workbook, Chapter 10, Worksheet 10, Page 83-84.







# ANSWERS – part 1:

<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
<ol> <li>a) 500 ml</li> <li>b) 1800 ml</li> <li>2. Yes. Both bottles have liquid to the same height, but one bottle is wider than the other so it holds more. Therefore, the wider bottle will contain 1.3 I as 1 I 300 ml Is more than 1 I 30 ml.</li> </ol>	<ul> <li>a) 1.2 m</li> <li>b) 1.65 m</li> <li>c) 1.32 m</li> <li>d) 0.9 m</li> <li>e) 0.89 m</li> </ul>	<ul> <li>1.</li> <li>a) UD = 4.9 cm DK = 4 cm KC = 6 cm CU = 6.5 cm</li> <li>b) LF = 5.2 cm YL = 5.2 cm</li> <li>c) All sides are 6.5 as it is a square.</li> <li>3.</li> <li>8 cm</li> <li>10 cm</li> <li>5 cm</li> <li>10 cm</li> </ul>	DistanceChild 1410 cmChild 2401 cmChild 3390 cmChild 4392 cmChild 5302 cm2.a) Greg beat Mitchell for the gold medal by 15 cm.8.31= 8 m 31 cm8.16 = 8 m 16 cmb) Michel lost the bronze medal to will by 1 cm.8.12 m = 8 m 12 cm8.11 m = 8 m 11 cm	Museum → City Hall = 3000m City Hall → Church = 1050 m Church → Station = 950 m Station → City Hall = 1300 m



# **ANSWERS – part 2 and deepening:**

<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
1. a) 1300 ml b) 850 ml c) 2250 ml 2. a) 3450 ml and 3045 ml b) trough c) bucket d) 3000ml e) trough and bucket	1. a) 1.8m b) 1.25m c) 1.68m d) 1.1m 2. a) Lulu=1.445m Elliot= 1.555m Amira= 1.42m b) Elliot C) Amira d) Amira, Lulu, Elliot	<ol> <li>AB= 3.2 cm AC= 4.7 cm BC= 3.5 cm</li> <li>WX=2.8 cm XY= 4.3 cm ZY= 2.8 cm WZ= 4.3 cm</li> <li>Answers may vary.</li> <li>Answers may vary.</li> <li>Answers may vary.</li> <li>Perimeter = 22 cm</li> </ol>	<ol> <li>a) 220 cm</li> <li>b) 485 cm</li> <li>c) 804 cm</li> <li>d) 161 cm</li> <li>e) 383 cm</li> <li>2.</li> <li>a)</li> <li>Ravi's plane : 5 m 2 cm</li> <li>Charles' plane : 4 m 38 cm</li> <li>Sam's plane : 6 m 19 cm</li> <li>b) Sam's</li> <li>c) Charles'</li> <li>d) 181</li> </ol>	1. a) 1960 m b) 800 m c) 5600 m d) 2350 m e) 2200 m f) 7560 m 2. a) Holly: 2540 m Ruby: 3050 m Lulu: 2890 m b) Ruby C) Holly D) Holly, Lulu, Ruby

