## Canonbury Home Learning

Year 2/3 Maths
Steppingstone activity
Lesson 2 - 23.06.2020


LO: To compare capacity

## Success Criteria:

1. Watch the short video showing the two glasses of water. https://nrich.maths.org/13664
2. Tell someone at home what you predict (think) will happen next.
3. Watch the second video to find out what happens. Is it what you predicted? Or were you surprised?
4. Use the words from the word bank to try and explain why you think this happened.

## Model:

1. Maya has two glasses of water.

Watch this short clip to see what she starts to do:

https://nrich.maths.org/13664
2. What do you think will happen next?

Make a prediction and tell someone at home what you think will happen.

3. Watch the second video (click
'Show' underneath the first clip)


Is it what you predicted? Or were you surprised?
4. Use the words from the word bank to try and explain why you think this happened:
tall/taller short/shorter wide/wider narrow/narrower volume capacity

1. Task 1: Find the missing part from the part-whole model. If the whole is missing: add the parts. If a part is missing: subtract the other part from the whole.
2. Task 2: Choose the correct containers to find the total volume of liquid.
3. You can use any working out you have practiced in school e.g. drawing base ten jottings, partitioning, number line, column addition/subtraction

## Model:

1. You are using part-whole models to add and subtract capacities and volumes:

2. You are finding the total of volumes of liquid:

Which two of these containers would you need to have a total of 3L and 700ml?


## $3 \mathrm{~L}=1 \mathrm{~L}+2 \mathrm{~L}$ (so C plus A or B )

$700 \mathrm{ml}=400 \mathrm{ml}+300 \mathrm{ml}$ (so C plus A)
The containers you need are $C$ and $A$.

## 3. Remember to show your workings out!

This helps to spot mistakes and check answers. You might use base 10 jottings (lines and dots), addition/subtraction on a number line, partitioning, and if you are Y 3 , column addition and subtraction.

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Year 2/3 Maths
Main activity
Complete at least 2 columns, more if you can!


Task 1

## Practice

Complete the part whole models:
1.

2.

3.

4.

5. Draw lines between these boxes to make the calculations correct:

| Start | + or - | Equals |
| :---: | :---: | :---: |
| 1 L and 300 ml | + 400ml | 1L and 200 ml |
| 2 L and 800 ml | +2L and 300 ml | 2 L and 800 ml |
| 500 ml | -11 and 600 ml | 1 L and 700 ml |

## Practice

1. Which two of these containers would you need to have a total of 3 L and 600 ml ?


| 2L and <br> 300 ml | 200 ml | 3 L and <br> 400 ml |
| :---: | :---: | :---: |

2. Which three of these containers would you need to have a total of $91 / 2 \mathrm{~L}$ ?

3. Which three of these containers would you need to have a total of $81 / 2 \mathrm{~L}$ ?

4. Which three of these containers would you need to have a total of $61 / 4 \mathrm{~L}$ ?



3b. Millie says, 'The jug has a capacity large enough to make 1 serving of juice.'


6a. Lu says, 'The jug has a capacity large enough to make 2 lots of slime.'


4 L and 900 ml
Is he correct? Prove it.
What is the difference between the capacity of the jug and the volume of liquid?

## Problem solving

2a. Find a way through the maze.


She drinks 2 L and 500 ml in total.

2b. Find a way through the maze.


He drinks 2 L and 900 ml in total.

5a. Find a way through the maze.


She drinks 4 L and 600 ml in total.

## Challenge

1. You have been given a mission to remove sugary drinks from the supermarket. How many ways can you find to collect the bottles so your checkout total is 4 L and 400 ml ?

