

Maths focus – Capacity.

Task 1:-

Estimating capacity. If you are able do this activity outside or even in the bath (!) so you don't make too much mess.

Use a measuring jug and 8 different cups, mugs, bowls, saucers. Estimate how much water the cup or bowl or mug might hold. Make your estimate in millilitres (ml). Record your estimates in your maths book.

Now using the measuring jug, fill the cup or mug or bowl with water and pour into the jug. Read the scale to work out how much water was in there. Record in your maths book.

OR

Read the scales on this rocket – change the level so that it challenges you:-

<http://www.ictgames.com/mobilePage/capacity/index.html>

Task 2 :- Reading scales

Use this online program:-

<https://mathsframe.co.uk/en/resources/resource/88/itp-measuring-cylinder>

Choose the maximum to challenge yourself, either 50ml, 100ml, 200ml, 500ml or 1000ml. Change the scale to make it easier or more challenging.

Fill the container so that it has these amounts in:- if you put too much in, you can click to let some liquid out!

OR

Measure the amounts out using a measuring jug.

150ml	250ml	450ml	660ml
25ml	75ml	30ml	90ml
442ml	337ml	421ml	763ml
128ml	774ml	669ml	337ml

Task 3:-

Adding capacity amounts

EITHER:-

Use watered down paint OR water coloured with food colouring.

To make the perfect 100ml of green liquid, how many ml of blue water do you need? How many ml of yellow liquid.

To make the perfect 100ml of orange liquid, how many ml of red water do you need? How many ml of yellow liquid.

To make the perfect 100ml of purple liquid, how many ml of blue water do you need? How many ml of red liquid.

To make the perfect 100ml of pink liquid, how many ml of red water do you need? How many ml of white liquid.

CHALLENGE – can you make a rainbow by mixing your own coloured waters?

Take a photo of your perfect colours and post them on the facebook page so I can see!

OR:-

Complete the attached sheet with the jugs on.

Task 4

Converting ml to litres - Choose one of these activities to complete.

If you can, print out the sheet and colour the rocket and planet the same colour where they are the same amounts for example 500ml = $\frac{1}{2}$ litre.

OR

Copy the amounts written on the rocket and planets onto pieces of paper and match them together.

OR

Have a go at the challenge sheet for task 4.

Task 5

Scavenger Hunt!

Ask your grown up to set a time for you 10 minutes? Or 15 minutes? Or 30minutes! How many of these items can you find? You must prove you have found the right item and so use a measuring jug to check.

- A cup or mug that will hold more than 250ml of tea for me.
- Something that will hold less than 100ml when full.
- Something that will hold more than 500ml
- Something that will hold more than 1 litre
- Something that will hold more than 100ml **BUT** less than 250ml of liquid.
- Something that will hold less than 50ml when full.
- An item that has a measurement in ml on the packaging.
- An item that has a measurement in litres on the packaging.