

### **Activity 1 - estimating and measuring**

- You will work in pairs - decide who is player A and who is player B.
- Pick one of the containers with water in and write its letter into the table on the sheet.
- Both separately estimate its capacity in millilitres and write your estimates in the correct column.
- Together measure the capacity of the container using one of the measuring equipment and write its capacity in the correct column.
- Whose estimate was closer?
- Carefully pour the water back into its original container.
- Repeat this with as many containers as you can get through.



## TA Plan

For this activity, ensure that the children are estimating carefully before they measure. They also need to be careful when putting the water into the measuring cylinders and the original containers.

*Early finishers: Allow them to measure out their own water for their partner to estimate and then measure themselves.*

## Activity 2 - estimating millilitres

- You will work in pairs or small groups.
- Each of you puts what you estimate to be **100ml** of water in an empty container. Don't use a measuring cylinder.
- Check your estimate by measuring your amount as accurately as you can in the measuring cylinder.
- In the table, record the amount of water. Work out the difference between it and 100ml.
- Put the water back in its container and try again 3 more times.
  
- Repeat these stages for **500ml** and **750ml**.

## Activity 2 – estimating millilitres

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- Each of you puts what you estimate to be **100ml** of water in an empty container. Don't use a measuring cylinder.
- Check your estimate by measuring your amount as accurately as you can in the measuring cylinder.
- In the table, record the amount of water. Work out the difference between it and 100ml.
- Put the water back in its container and try again 3 more times.
  
- Repeat these stages for **500ml** and **750ml**.

<b>Estimating 100ml</b>	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try	4 <sup>th</sup> try
Amount of water				
Difference between amount of water and 100ml.				

<b>Estimating 500ml</b>	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try	4 <sup>th</sup> try
Amount of water				
Difference between amount of water and 500ml.				

<b>Estimating 750ml</b>	1 <sup>st</sup> try	2 <sup>nd</sup> try	3 <sup>rd</sup> try	4 <sup>th</sup> try
Amount of water				
Difference between amount of water and 750ml.				

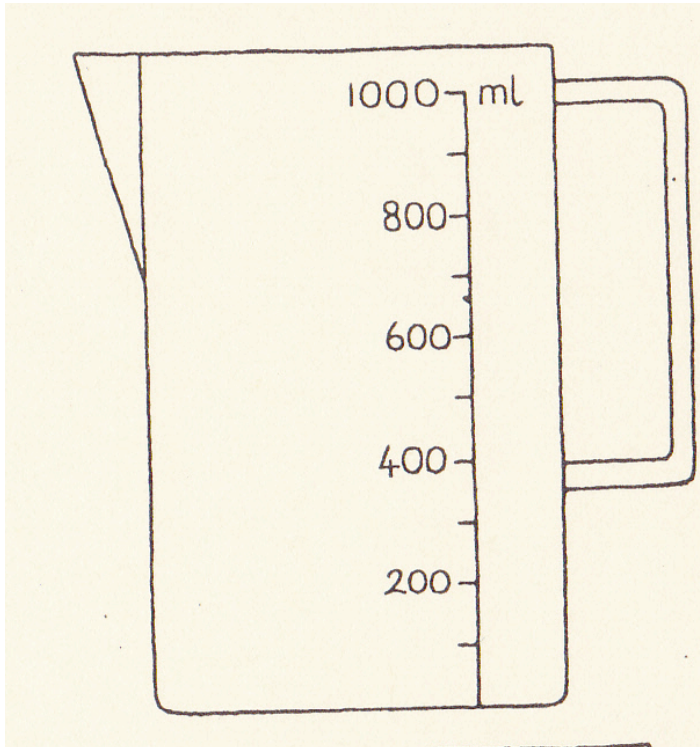
## TA Plan

For this activity, ensure that the children estimate the amounts carefully before they go on to measure their estimations.

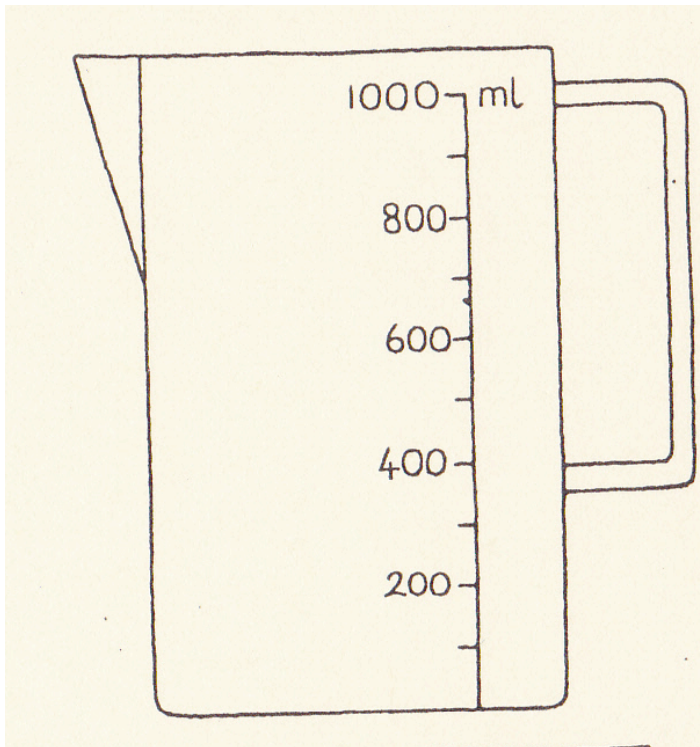
*Early finishers: Get them to estimate other amounts of water e.g 1 litre, 250 ml etc and follow through the same stages.*

### Activity 3 - capacity activities

*Colour the layers in each jug. Start at the bottom.*



- Colour 150ml in red.
- Add on 200ml in yellow.
- Add on 50ml in blue
- Add on half a litre in green.



- Colour a quarter of a litre in red.
- Add on 150ml in yellow.
- Add on a tenth of a litre in blue
- Add on 20% of a litre in green.

## Word problems

1. If there are 25 children on a school trip, and each child needs a drink of 100ml of juice, would one 2 litre bottle be enough for them all to have a drink?
2. If cola costs 50p for 200ml, would I be able to buy a litre with £2.00?
3. I use 25ml of shampoo every time I wash my hair, and I wash my hair every day. How long would a 500ml bottle last?
4. I use 5ml of toothpaste and 50ml of soap everyday. Which will last longer if the toothpaste tube contains 100ml and the soap contains 500ml?
5. How much would be left in a litre bottle of milk if a family of 4 each used 40ml on their cereal in the morning?

Now make up some of your own word problems for a friend.

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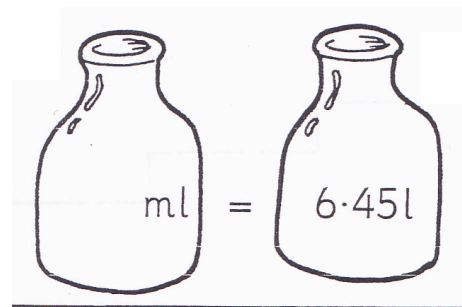
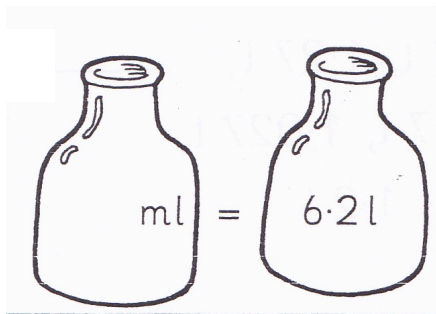
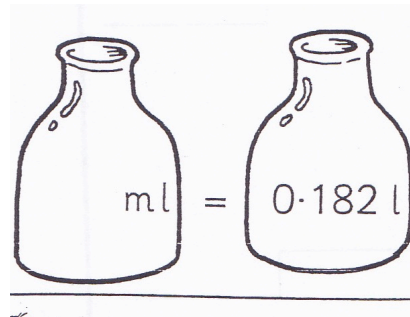
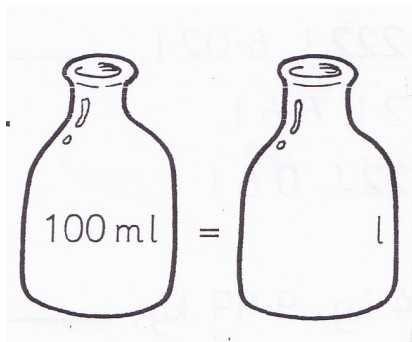
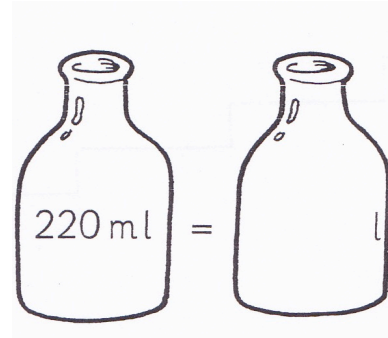
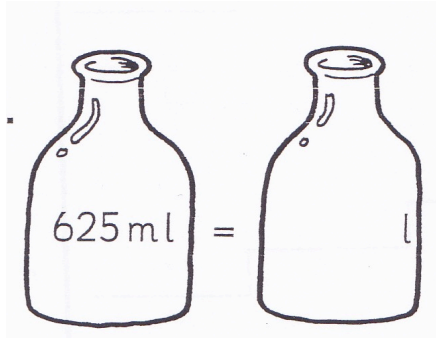
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### Activity 4 - converting capacities

Fill in the equivalent measurements:



Match the measurements which are the same by colouring the boxes in the same colour:

<input type="text" value="250ml"/>	<input type="text" value="340ml"/>	<input type="text" value="3.4 litres"/>
<input type="text" value="0.34 litres"/>	<input type="text" value="0.01 litres"/>	<input type="text" value="A quarter of a litre"/>
<input type="text" value="0.004l"/>	<input type="text" value="10ml"/>	<input type="text" value="3400ml"/>
		<input type="text" value="4ml"/>

Put these capacities in order of size, start with the largest weight.

1. 1.375 litres, 625ml, 3.729 litres, 785ml, 0.325 litres

2. 6.372 litres, 2.639 litres, 0.572 litres, 5.639 litres

3. 8.203 litres, 262ml, 9.101 litres, 0.672 litres

4. 0.63 litres, 0.794 litres, 0.93 litres, 967ml

5. 1.654 litres, 3.276 litres, 0.839 litres, 0.634 litres.

Now write your own conversion problems for a friend.

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