

ACTIVITY NO. – 11 JUGS AND MUGS

SUBJECT	MATHEMATICS
CLASS	III
CHAPTER/UNIT	JUGS AND MUGS
TOPIC	ESTIMATING AND COMPARING THE CAPACITY OF WATER IN DIFFERENT VESSELS
TIME	30 MINUTES
NATURE OF ACTIVITY	INDIVIDUAL

What will I learn(Learning Outcome)?

Estimating the capacity of water stored in different vessels.

Skills: Applying, Analyzing, Critical Thinking, Visualization

What I have to do?

To estimate and compare the capacity of water stored in different vessels.

What do I require?

1 litre water bottle, one vessel (a small bowl / a glass/ a jug/ a mug) , A4 size sheet , a marker , pencil , ruler and eraser.

What do I need to know?

Units used to measure liquids , *l* stands for litre and *ml* stands for millilitre,
 $1l = 1000ml$,half litre = $500\ ml$

➤ **Teacher's Activity :** The teacher will :

- instruct that every student has to bring one vessel from the options given : a small bowl / a mug / a jug / a glass and a transparent water bottle of 1 litre (compulsory for every student).
- guide the students how and where to mark half litre using marker on the water bottles they have.

How will I proceed ?

➤ **Student's Activity :**

- 1) Fill your vessel with water completely.
- 2) Now, pour the water from your vessel into 1 litre transparent water bottle very carefully.

- 3) Observe the level of the water filled in the transparent water bottle.
- 4) If your water bottle is completely filled and water is still left in your vessel, then that vessel can hold more than 1 litre of water .
- 5) Similarly, note whether the level of water is more than , less than or equal to half litre.
- 6) All the students will discuss about the capacity of the water that can be filled in their vessels and enlist the names of the vessels according to their capacity of holding water.

What have I observed ?

Vessel selected : _____ (a small bowl/ a mug / a jug / a glass)

<u>Name of the vessel that can hold water</u>				
<u>Less than half litre</u>	<u>Exactly half litre</u>	<u>More than half litre but less than 1 litre</u>	<u>Exactly one litre</u>	<u>More than one litre</u>

_____ vessel can hold maximum amount of water.

_____ vessel can hold minimum amount of water.

What have I learnt?

To estimate and compare the capacity of different vessels.

What am I curious to know?

How many glasses can be filled with 1 litre water completely?

Let me evaluate myself

Q1) Can the following vessels hold more or less than 1 litre of water? Encircle the correct word more or less.

- (a) A mug (More / Less)
- (b) A jar (More / Less)
- (c) A spoon (More / Less)
- (d) A glass (More / Less)
- (e) A bucket (More / Less)
- (f) A tank (More / Less)
- (g) A bottle (More / Less)
- (h) A tin can (More / Less)

Q2) Fill in the blanks with most suitable unit *l* or *ml* .

- (a) The oil in a toaster . 100 ____
- (b) The milk in a bottle. 2 ____
- (c) The medicine in a dropper. 1 ____
- (d) The soup in a bowl . 250 ____
- (e) The water in the drum. 300 ____