🔴 Wicking bed capacity

Capacity means the maximum amount that something can contain. Estimating the capacity of the wicking bed will help you understand how much water and soil you will need to fill it. Estimating means to have a smart guess using various objects.

Water reservoir capacity:

Look at the water reservoir as you build the wicking bed. The water reservoir is the space at the bottom of the wicking bed that holds the pipe and the gravel. Make an estimate of how many full buckets of water will be required to fill the reservoir up to the overflow.

Can you work out how much water you will need by answering the questions below?

Estimate how many buckets you will need to fill the bed after the gravel is added: Hint: can you place some buckets in the bottom of the bed and count them, or for older children, can you use tape measures to measure the space and then calculate?	
Show how you worked this out: Hint: is there an equation you used? Can you explain how you used tools or equipment to estimate the capacity?	

Draw to explain your thinking:

Results:

How many buckets of water did you need to fill the wicking bed?	
What can you tell us about your estimate?	
What did you discover?	

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Soil capacity:

Look at how much soil is needed to fill up the wicking bed. Estimate how many buckets of soil you will need to fill up the wicking bed.

Estimate how many buckets you will need to fill the bed: Hint: can you place some buckets in the soil section of the bed and count them, or for older students, can you use tape measures to measure the space and then calculate?	
Show how you worked this out: Hint: is there an equation you used? Can you explain how you used tools or equipment to estimate the capacity?	

Draw to explain your thinking:

Results:

How many buckets of soil did you need to fill the wicking bed?	
What can you tell us about your estimate?	
What did you discover?	