

Meniscus & Parallax - Student Activity

Observing a Meniscus Materials per group

- Beaker
- Measuring cylinder
- Transfer pipette
- Water

Method

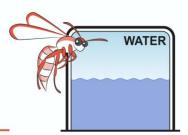
1.	Half-fill:	a measuring	cylinder	with	water
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Why is the surface of water in a container curved?					
What do we call this curved surface?					
15 mL 10 mL 5 mL					
The diagram above represents a measuring cylinder partly filled with water. Which part of the					
water's surface curve is used for measurement?					
What is the volume of water in the measuring cylinder?					

Accuracy and precision

Which piece of laboratory equipment would you use to accurately measure these volumes of liquid?

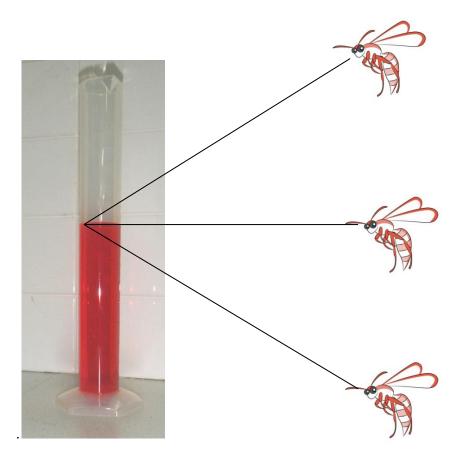
Volume (mL)	Pipette	Measuring cylinder	Beaker
5			
15			
50			
150			
500			



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Avoiding parallax (misreading) error

Which wasp will read the correct volume of water?



Using the equipment provided accurately measure these volumes of water: Get a friend to check your readings

Volume	Equipment selected	Equipment selected	Checked
5mL			
10ml			
25mL			
100mL			
500mL			

What can lead to inaccuracies in reading volumes of water?						