



BLOWING BUBBLES

“FABULOUS FORCES”

SCIENCE - YEAR 3/4



INSTRUCTIONS



1. You need to take the bubble blower and ensure that the bubble apparatus works!
2. Practice blowing the bubbles until you can get a good stream of bubbles.
3. Use the Observation Record sheet to complete the next step.



4. When you have finished the Observation Record sheet you need to proceed to the Experiment Task and Record Sheet & Exploring Bubble Shapes.
5. Your final step is to complete the Write Up task.

Enjoy your bubbles!



OBSERVATION RECORD SHEET

1. Blow a steady flow of bubbles into a calm atmosphere (blow up into the air where it is calm).
2. Now WATCH. *Watch, listen, think, analyse and respond* to the following questions in the table.

*WRITE DOWN *EVERYTHING* YOU SEE OR NOTICE.

	OBSERVATION
How do the bubbles move?	
Do the big bubbles move differently to the small bubbles?	
What direction do they move?	
Why do the bubbles move	



in certain directions?	
Do the bigger bubbles fall to the ground faster than the smaller bubbles?	
Do the bubbles stay bubbles for long until they pop?	
What is the weather like?	
Why do you think there are different sized bubbles?	



Other Observations	
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Experiment Task and Record Sheet

NOW WE HAVE TO TRY AND CHANGE WHAT IS HAPPENING TO THE BUBBLES TO GET MORE INFORMATION.

EXPERIMENT TASK 1	OBSERVATIONS – What did you see?
<ul style="list-style-type: none">• Blow some more bubbles and see how many ways you can make them speed up? <i>(You can use the piece of card to flap in the air and provide air movement as one way to change their speed!)</i>	Write down all the ways that you tried to use to make the bubbles speed up! <ul style="list-style-type: none">••



EXPERIMENT TASK 2	
<ul style="list-style-type: none">• Blow some more bubbles and see if you can make them change direction? <i>(You can use the piece of card to flap in the air and provide air movement as one way to change their direction!)</i>• How did you make them change direction?• Was it successful?	Write down all the ways you tried to make the bubbles change direction! Did it work?



EXPERIMENT TASK 3	Observation – what did you see?
<ul style="list-style-type: none"> • Do bigger bubbles fall to the ground faster than smaller bubbles? <p>Try and blow different sized bubbles and test the question</p>	
EXPERIMENT TASK 4	DRAW YOUR BUBBLE WAND SHAPES
<p>Bubble Wand Size and Shape</p> <ul style="list-style-type: none"> • Use the pipe cleaners in the box to create 2 different shaped bubble wands – one pipe cleaner for the handle and the other for the shape of the 	<p>Draw each of your bubble wand shapes in this space.</p>



wand (any shape you like!)



- Once you've completed the wand, take it outside to complete the test using the table "Exploring Bubble Shape".



Exploring Bubble Shape

<p>Prediction – “Guess” what the bubble want shape will make of the bubbles. <i>For example: Do triangular wands make triangular bubbles?</i></p>	<p>Observation – What you actually saw when you blew the bubbles from the different wands.</p>
<p>Discussion: This is where you write down possible reasons “why?” your bubbles did what they did. Write down all the things that you can think of. You can always come back to this and write more later!</p> <p><i>HINT: Could the bubble solution be a factor?</i></p>	





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