

# Science at Park Hall Academy

On your post-it note write down....

1. What you expect Science to be like a secondary school
2. What you are most looking forward to in Science?
3. Something you would like to learn about in Science?





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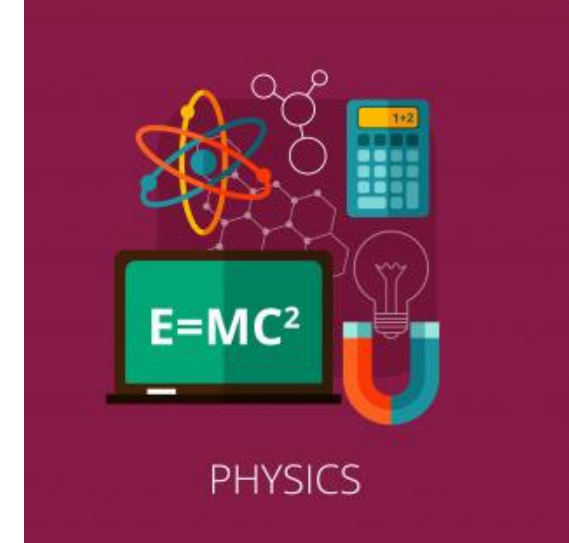
# What will I study?



In Biology you will study living things such as humans, animals, plants and even bacteria!



In Chemistry you will study atoms and compounds. You will study reactions and make lots of observations.



In Physics you will study the forces and phenomenon that exist on our planet and beyond.....



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# We are sad you were not able to come and experience some science but here is a little bit about us



Mr D Allision

My favourite topic is digestion. I am looking forward to teaching the new year 7 pupils about separation techniques and getting them used to handling and using new apparatus.



Mr A Allision

My favourite topic is forces. I am looking forward to planning some fun investigations with my year 7 class.



Mrs Harnett

My favourite topic is ecology. I am looking forward to meeting you all and welcoming you to the school.



Mr Lefevre

My favourite topic is anything Physics related! I am excited to meet you all in September



Miss Moody

I love balancing equations and teaching about the human body. I'm excited to get to know all of you and teach you about the wonders of science!



Miss Parker

My favourite topic is energy. I am looking forward to meeting all you budding scientists and learning lots about Science with you



Miss Tipper

My favourite topic in science is chemical reactions. I am excited to meet lots of new young scientists, and to see the joy they experience during practical lessons that they would not have experienced before in primary school.



Dr Williams

My favourite topic is chemical reactions I'm excited to be back doing practical lessons

# Introduce yourself... bring this on your first Science lesson

My name is....

I am most excited about .....

My favourite subject is ....

My worries are ....

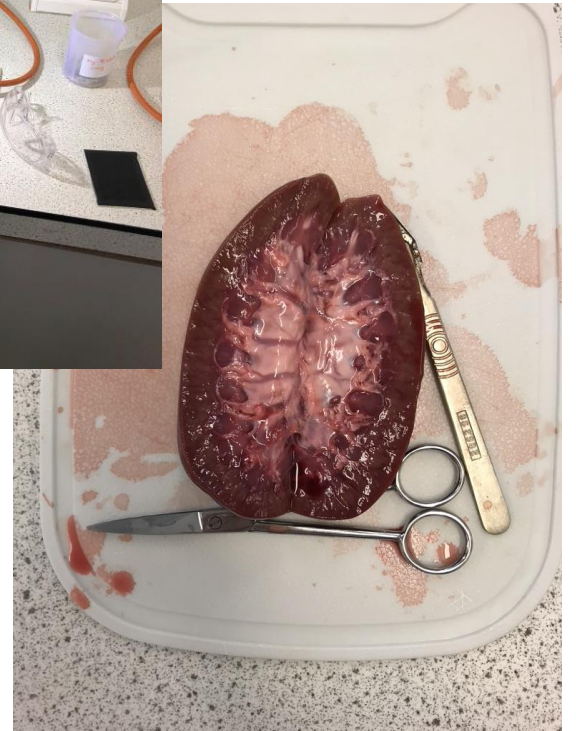
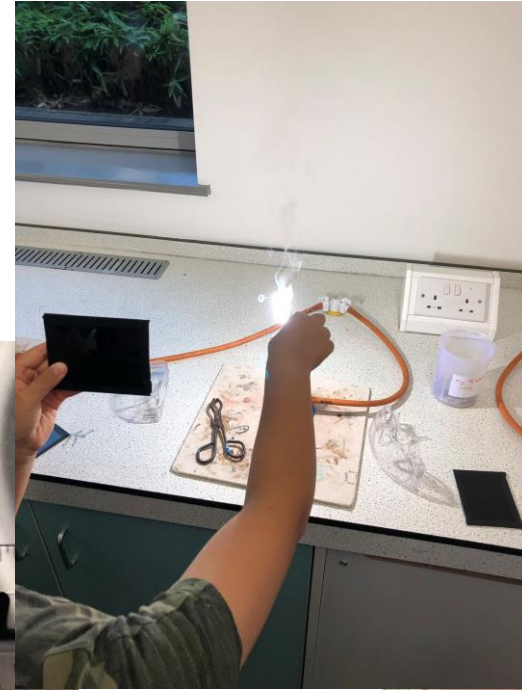
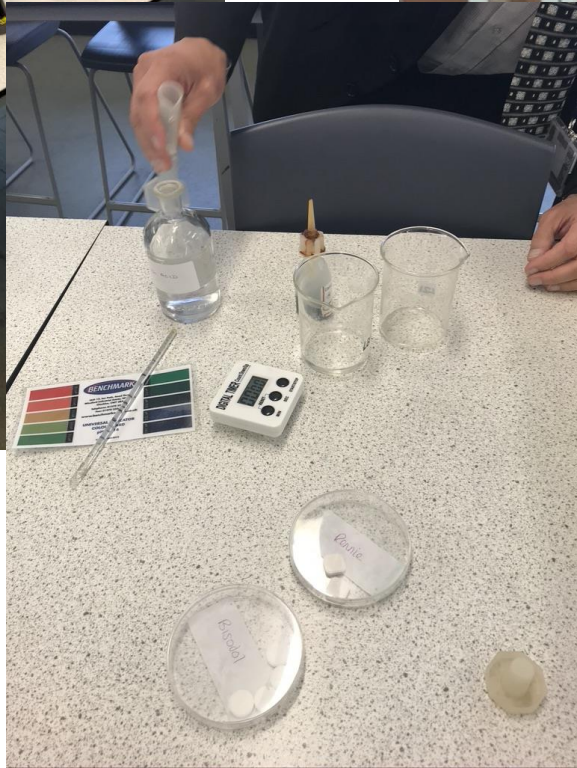
I am looking forward to learning about in Science .....





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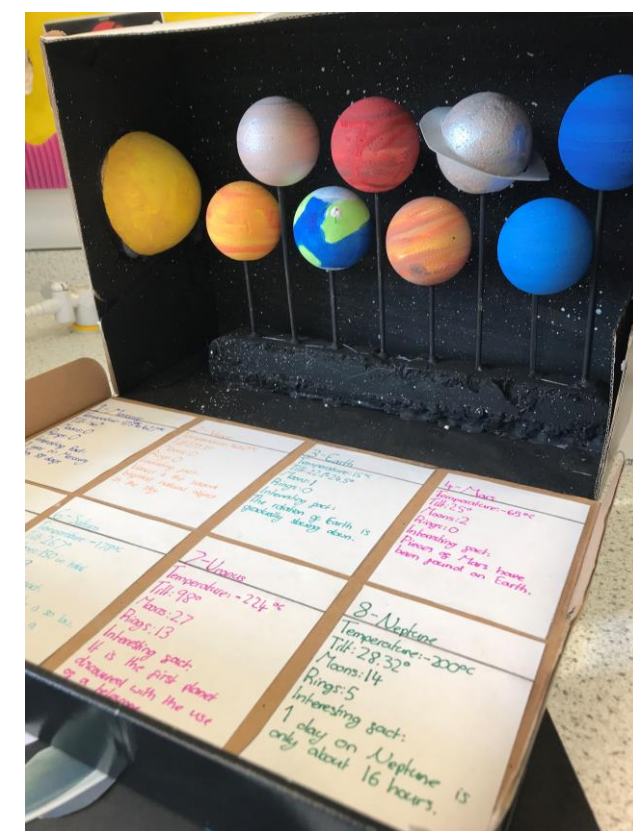
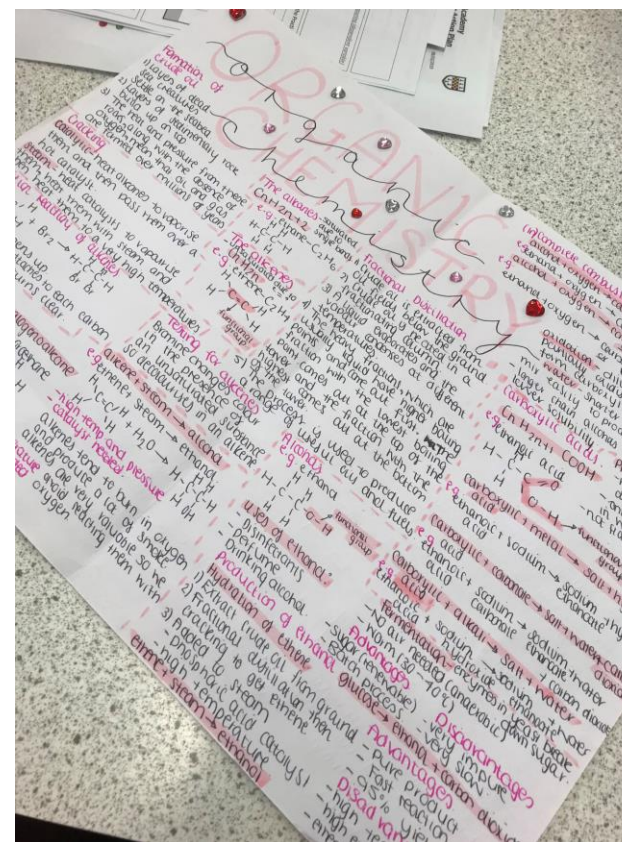
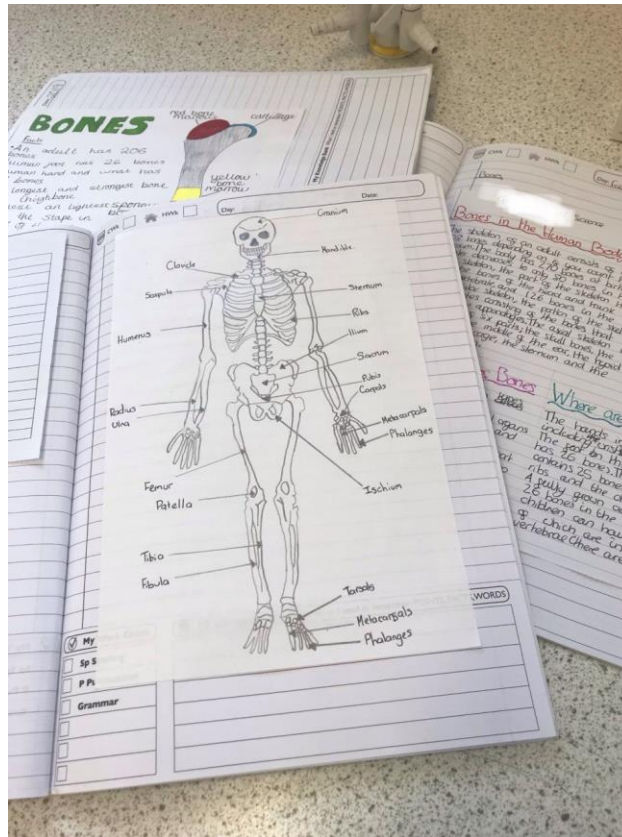
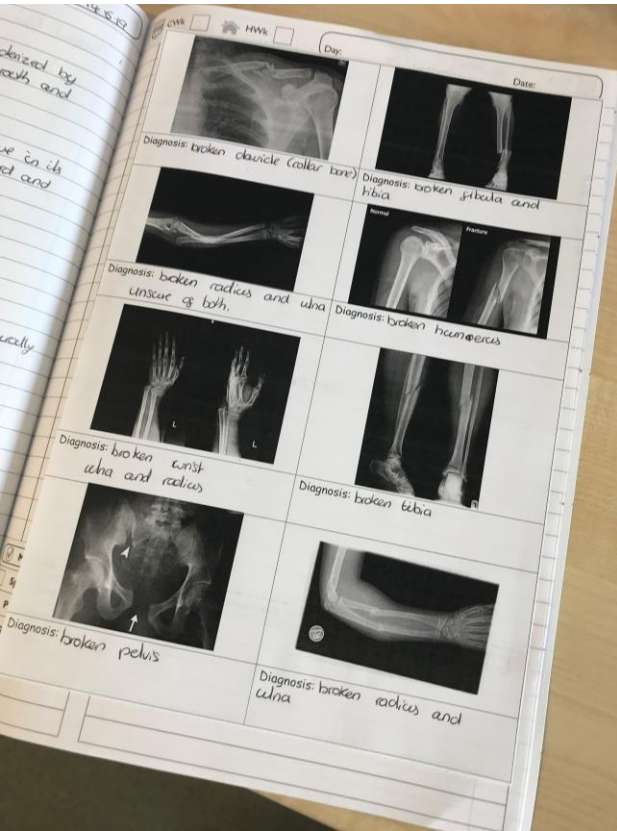
# We complete lots of exciting experiments





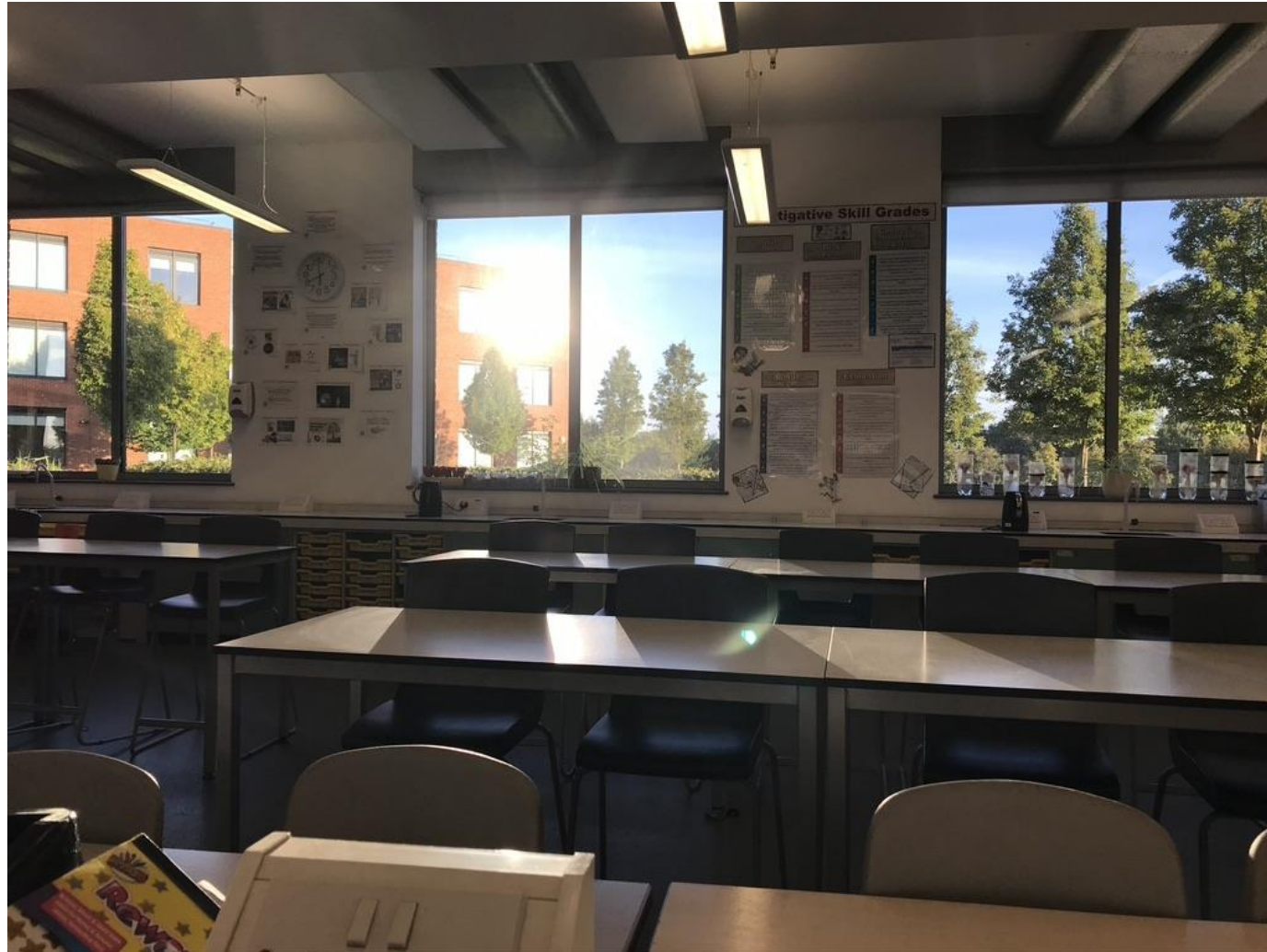
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# We create lots of exciting work





# You will work in a Science Laboratory



# Before you start work in one of our labs you must learn how to conduct yourself safely

From the picture, identify any **hazards** in the lab.

Work together as a table to come up with the hazards.

Extension: Could you suggest any precautions the children could take to make the lab safer?







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# Laboratory Hazards Answers

1. running
2. eating
3. sitting down during a practical
4. bags on the desk
5. coats on the desk
6. no goggles on
7. unattended practical
8. untied hair
9. putting glass in the bin



# Why Is Safety so Important?

What do you use a laboratory for and why is safety so important?

Discuss with your table – you have two minutes to come up with an answer.



A Science laboratory is used for carrying out practical investigations. They involve using dangerous chemicals and practical equipment such as Bunsen burners.

Some practical equipment, such as test tubes, are easily breakable so care must be taken.

The pupils' and teacher's health and safety is very important so that no one gets hurt.



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# Rules in the Lab



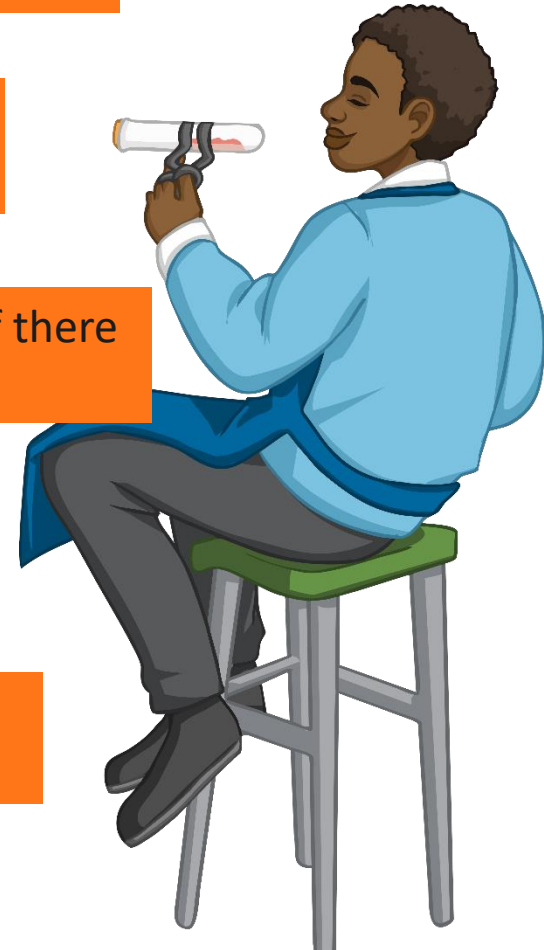
Neatly, list 5 of the most important rules in the front of your book.



# Problem-Solving

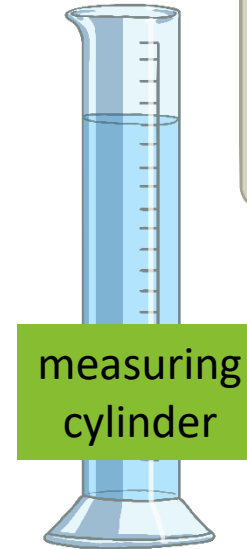
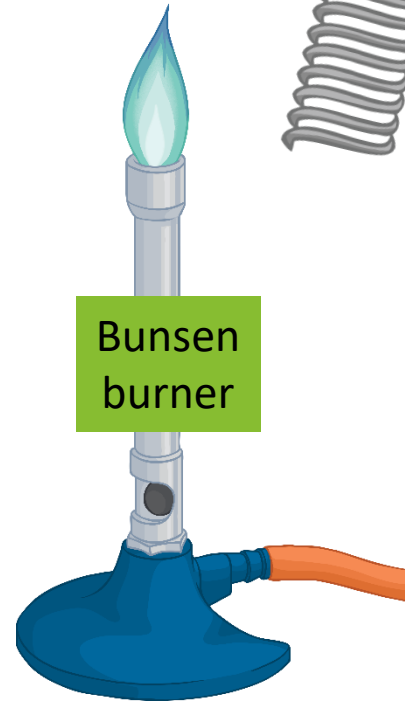
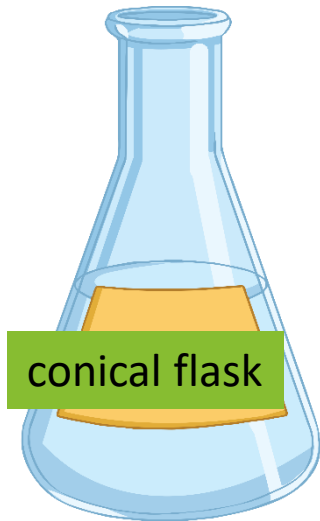
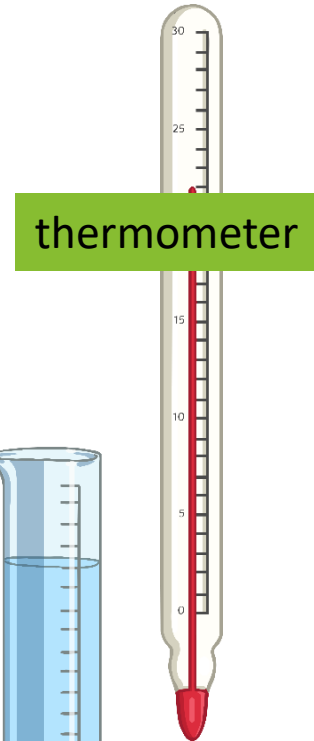
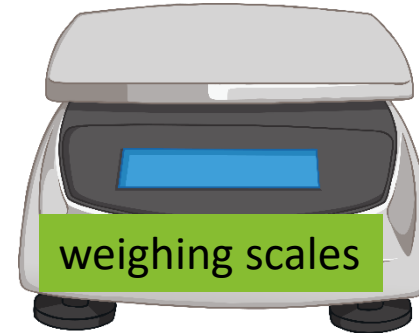
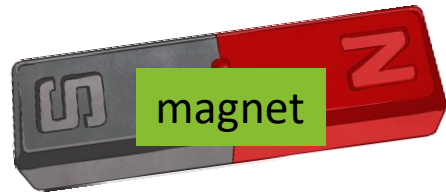
Read the scenarios and explain what the teacher/student should do.

1. Tell your teacher. Clear it up if they tell you to do so.
2. Move the bag to either a bag storage area or place under the desk.
3. Ask the pupil to stand up and push their chair under, so if there is a spillage, the pupil can move away more easily.
4. Nothing – wait until the lesson has finished (break/lunch).
5. Tell your teacher. They will brush it up and place it in a glass bin.



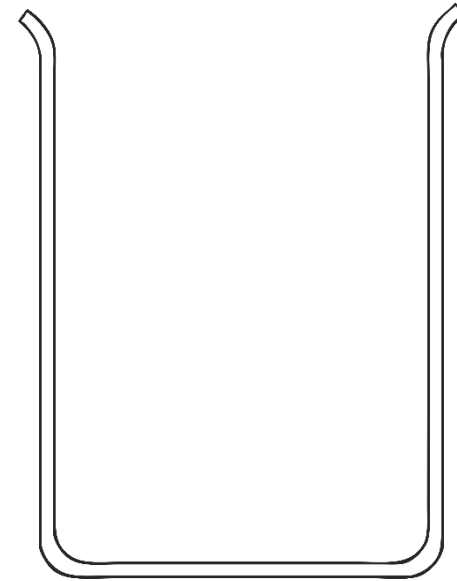
# Laboratory Equipment

Look at the following pictures. How many can you identify?



# Drawing a Diagram of a Practical

When drawing a diagram of practical equipment, a scientific diagram is used.

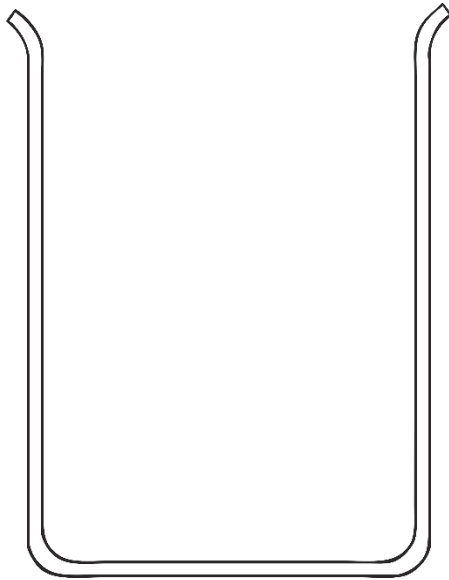


Why is a diagram used, like the one above?

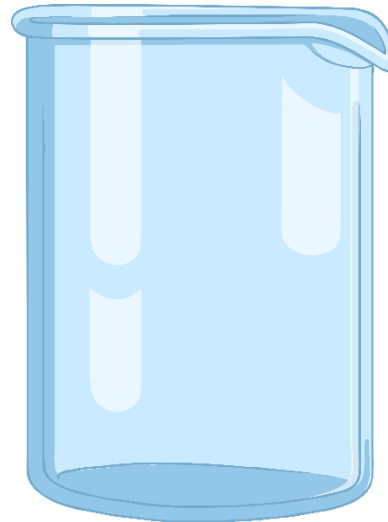
To make the practical easier to draw  
and easier to identify.

# Drawing a Diagram of a Equipment

Match up the equipment names with the scientific diagrams on the worksheet

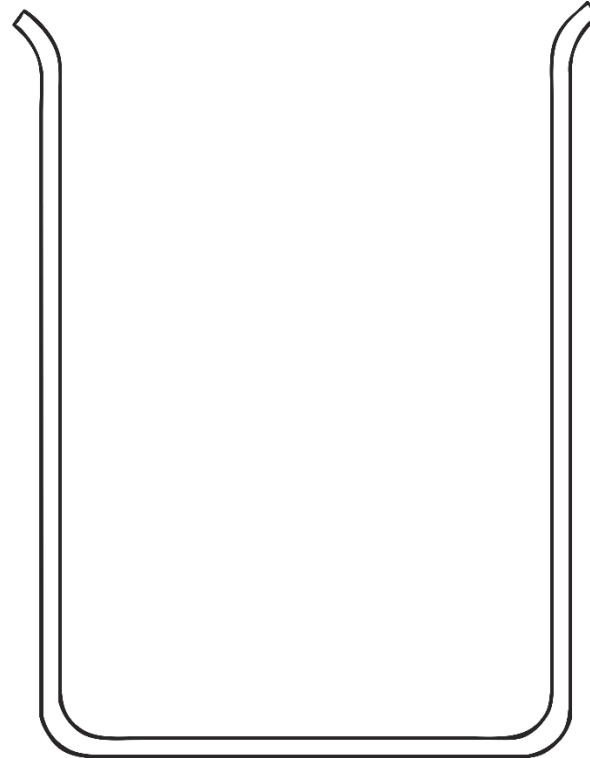


Beaker



# Drawing diagrams – Quick quiz

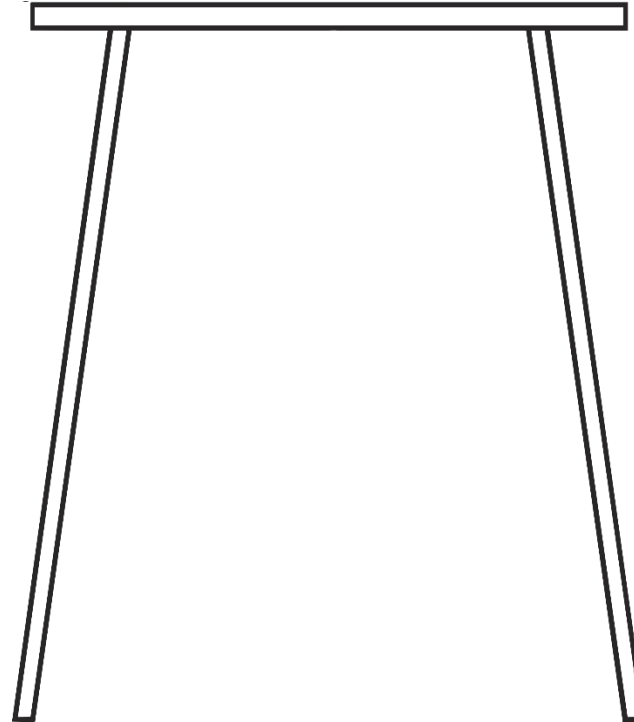
beaker





# Drawing diagrams – Quick quiz

tripod



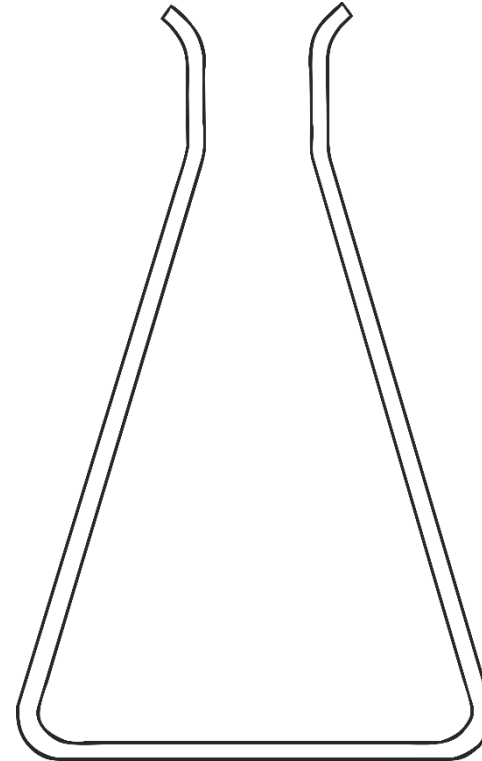
# Drawing diagrams – Quick quiz

gauze



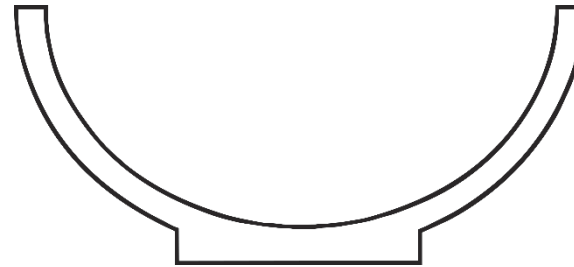
# Drawing diagrams – Quick quiz

conical flask



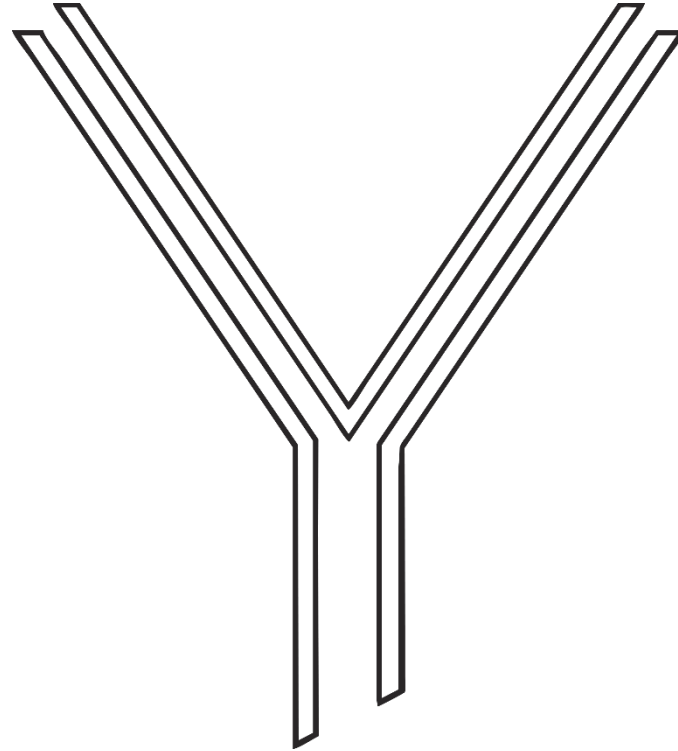
# Drawing diagrams – Quick quiz

evaporating basin



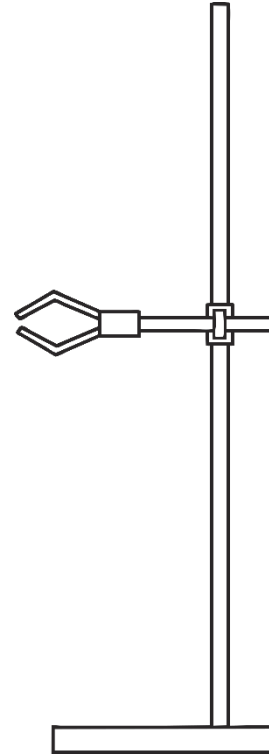
# Drawing diagrams – Quick quiz

funnel



# Drawing diagrams – Quick quiz

clamp stand





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# Equipment bingo

BINGO











Draw a 9 x 9 grid

In each box write a different piece of equipment







Cross them out as your teacher reads out different pieces of equipment or shows you a picture of the equipment

Work through the summer science activity book  
 Make sure to bring it to your first science lesson in  
 September so your teacher can see what you have done


Here is a list of the exciting topics you will be learning about when you join us in September!

 <b>Space</b>	<b>Skeletal and muscle systems</b> 
<b>Cells</b> 	<b>Particles</b> 
<b>Ecosystems</b> 	<b>Photosynthesis</b>
<b>Sound</b> 	<b>Reproduction</b> 
<b>Forces</b> 	<b>Investigating science</b> 

To help you prepare for exciting practicals at Park Hall Academy have a go at matching the science equipment to its correct name. Do you know what we might use them for?

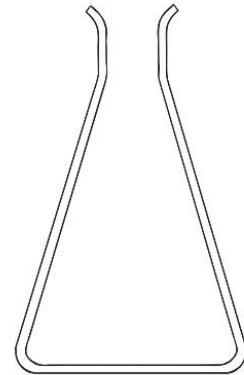
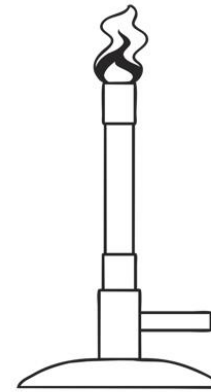
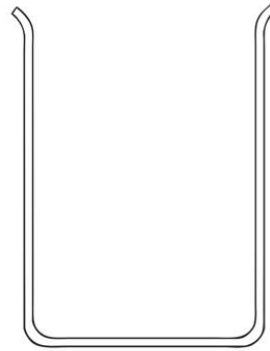
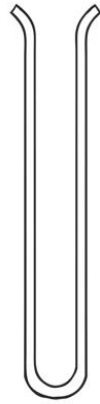
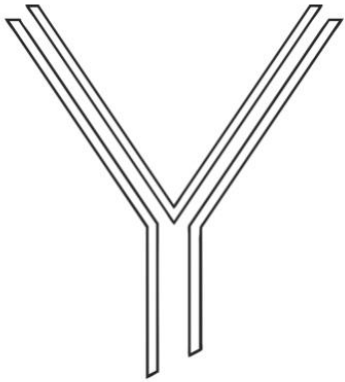
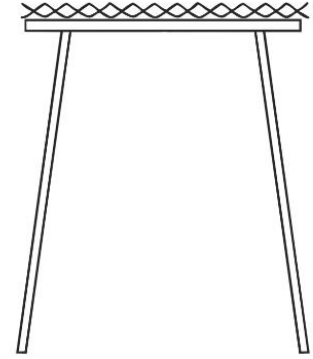
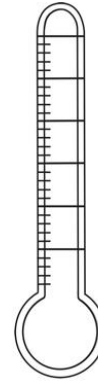
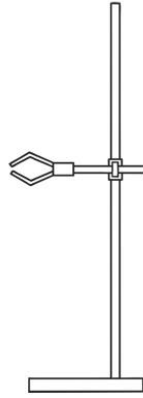
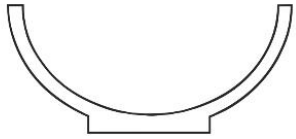
Filter funnel		① _____
Bunsen burner		② _____
Thermometer		③ _____
Test tube		④ _____
Measuring cylinder		⑤ _____
Beaker		⑥ _____

*The science department are looking forward to meeting you in September.*

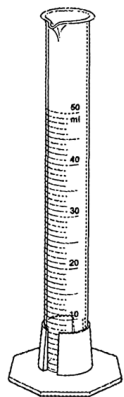
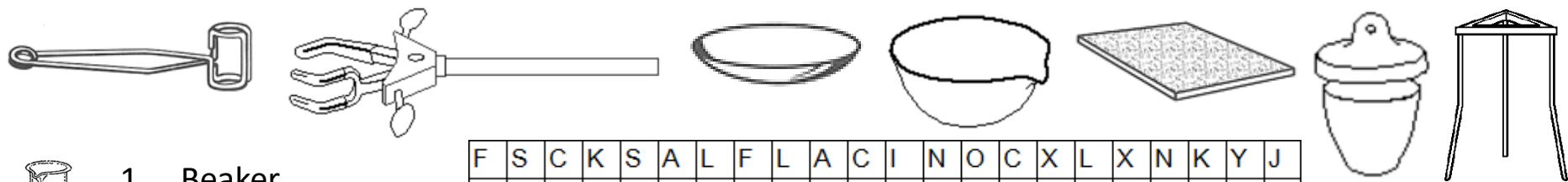




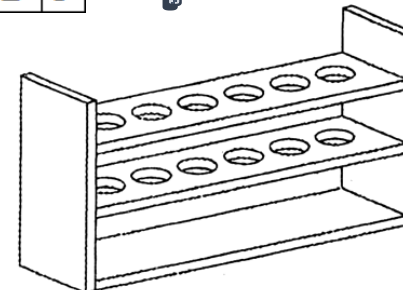
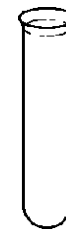
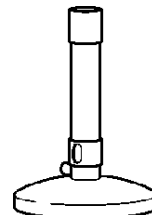
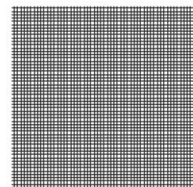
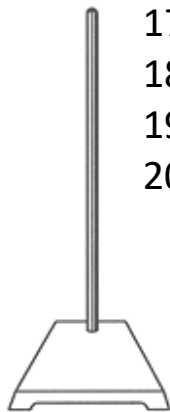

# Equipment Match-Up



**Keywords:** conical flask, filter paper and funnel, test tube, thermometer, beaker, tripod and gauze, clamp and stand, Bunsen burner, evaporating basin.

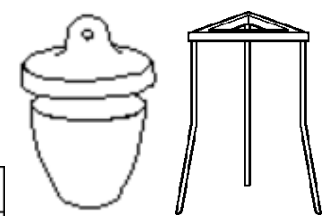


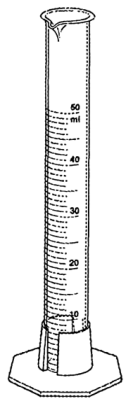
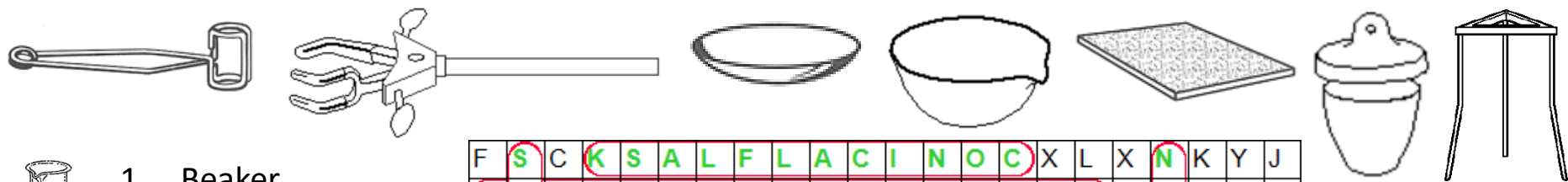
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3. Conical flask
4. Gauze
5. Safety goggles
6. Filter funnel
7. Pipette
8. Clamp stand
9. Clamp
10. Thermometer
11. Evaporating basin
12. Crucible and lid
13. Heatproof mat
14. Tripod
15. Test tube
16. Test tube rack
17. Test tube holder
18. Pestle and mortar
19. Watch glass
20. Bunsen burner



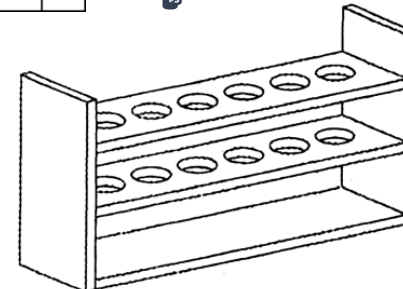
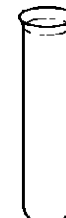
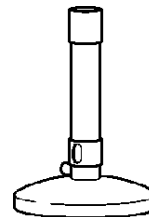
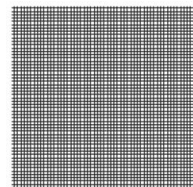
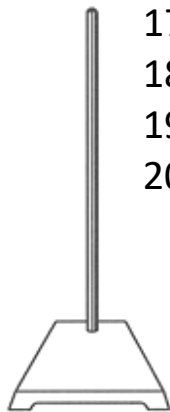
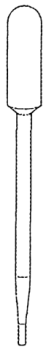
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# Lab Equipment 1



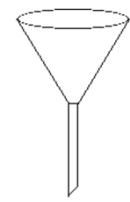


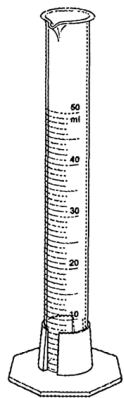
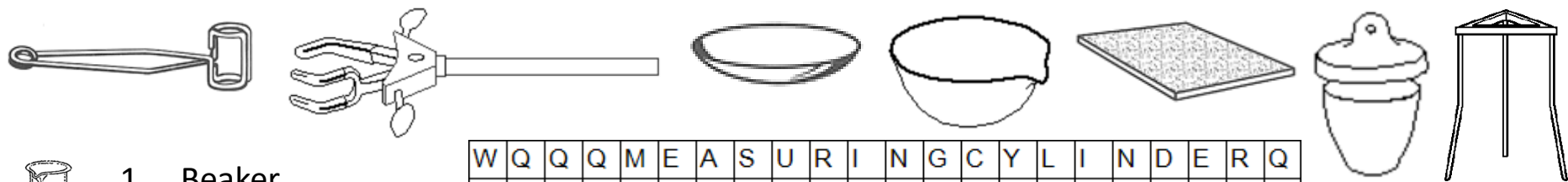
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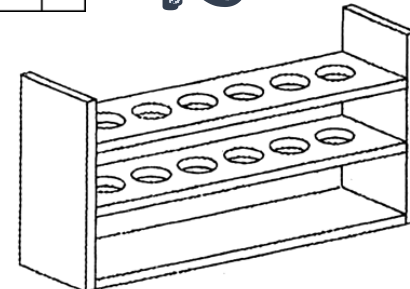
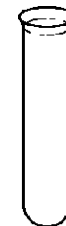
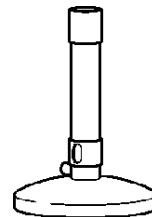
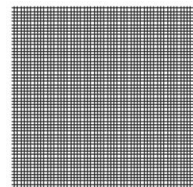
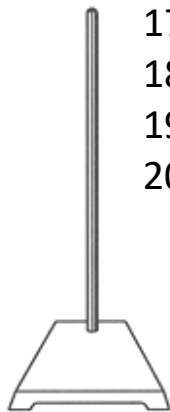
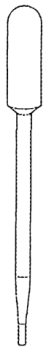
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S	T	T	L	R	T	E	E	E	C	E	C	P	R	G	Y	L	R	T	Y	A	H
T	E	C	E	E	N	R	K	T	F	L	P	S	S	R	E	A	A	R	H	C	
T	F	J	A	K	M	R	Z	T	T	O	T	B	B	T	D	N	C	R	U	C	T
U	A	R	N	A	O	U	J	T	R	A	L	K	I	L	U	N	O	O	S	L	A
B	S	B	D	E	M	B	Z	H	E	G	W	T	O	C	K	U	M	P	I	A	W
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R	F	E	O	A	E	E	V	E	E	H	E	Q	J	R	Z	R	Y	V	U	P	Y
A	D	Y	R	Z	H	S	R	Z	D	B	C	A	J	I	C	E	C	E	T	S	H
C	M	C	T	B	T	N	V	Y	U	I	S	D	J	P	J	T	N	A	D	T	D
K	C	P	A	C	A	U	N	T	J	R	Q	O	R	O	O	L	D	K	P	A	F
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O	L	S	P	L	E	A	J	G	Q	V	D	Z	C	U	G	E	Z	U	A	G	P
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# Lab Equipment 1



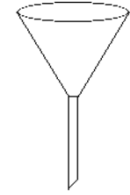
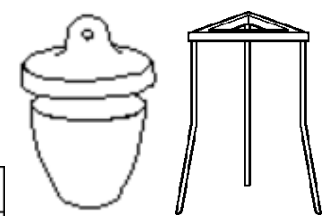


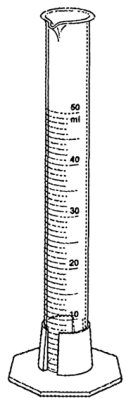
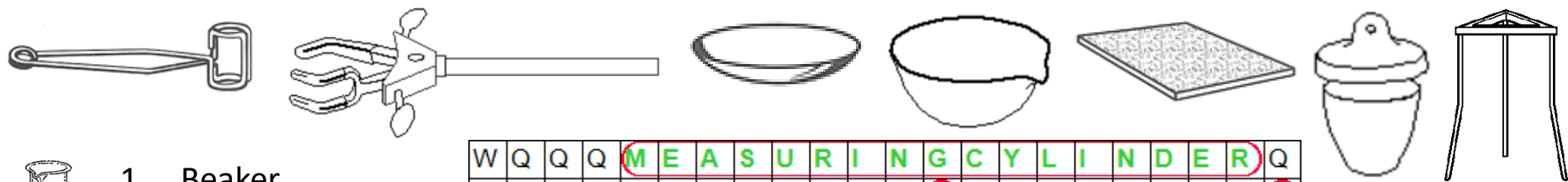
1. Beaker
2. Measuring cylinder
3. Conical flask
4. Gauze
5. Safety goggles
6. Filter funnel
7. Pipette
8. Clamp stand
9. Clamp
10. Thermometer
11. Evaporating basin
12. Crucible and lid
13. Heatproof mat
14. Tripod
15. Test tube
16. Test tube rack
17. Test tube holder
18. Pestle and mortar
19. Watch glass
20. Bunsen burner



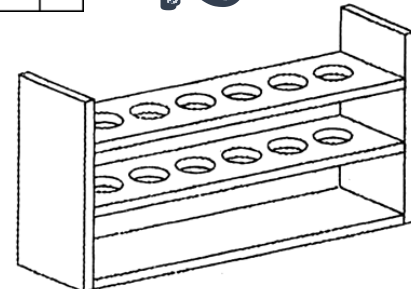
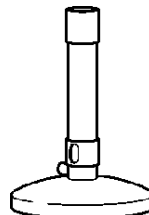
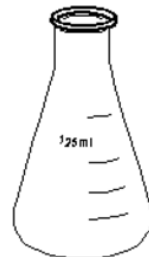
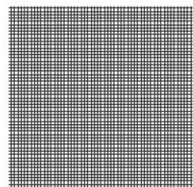
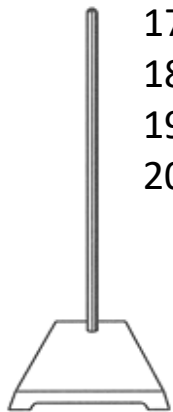
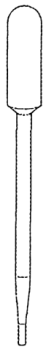
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S	F	N	T	W	B	T	I	C	L	A	M	P	H	E	B	Z	T	V	S	Z	D
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C	T	G	T	H	E	R	M	O	M	E	T	E	R	A	O	J	T	A	I	Q	E
V	R	G	L	P	N	R	C	P	G	I	K	K	A	G	E	U	R	S	D	N	I

# Lab Equipment 2





1. Beaker
2. Measuring cylinder
3. Conical flask
4. Gauze
5. Safety goggles
6. Filter funnel
7. Pipette
8. Clamp stand
9. Clamp
10. Thermometer
11. Evaporating basin
12. Crucible and lid
13. Heatproof mat
14. Tripod
15. Test tube
16. Test tube rack
17. Test tube holder
18. Pestle and mortar
19. Watch glass
20. Bunsen burner



W	Q	Q	Q	M	E	A	S	U	R	I	N	G	C	Y	L	I	N	D	E	R	Q
Q	S	Y	M	O	L	Z	W	F	Q	D	Z	D	V	N	I	A	P	E	I	O	L
K	W	E	Y	W	I	D	X	I	A	V	P	I	A	U	C	Y	F	T	T	H	E
A	U	V	I	E	R	W	B	D	J	D	P	L	U	V	G	L	H	C	G	K	N
T	T	A	C	D	E	K	N	N	Q	W	K	D	B	C	E	S	P	D	H	C	N
S	W	P	X	I	D	P	R	A	T	T	B	N	S	B	V	Z	Z	H	O	A	U
A	E	O	O	D	L	E	E	T	T	R	S	A	W	E	M	Q	Q	W	M	R	F
F	E	R	L	T	O	S	N	S	V	I	Y	E	E	E	L	Z	R	O	K	E	R
E	N	A	Y	I	H	T	R	P	E	P	B	L	B	S	H	E	K	G	B	B	E
T	H	T	S	P	E	L	U	M	V	O	X	B	U	J	M	W	L	Q	Q	U	T
Y	E	I	S	I	B	E	B	A	G	D	B	I	T	W	P	P	Z	G	W	T	L
G	A	N	S	P	U	A	N	L	U	O	I	C	T	W	Q	D	P	V	J	T	I
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C	T	G	T	H	E	R	M	O	M	E	T	E	R	A	O	J	T	A	I	Q	E
V	R	G	L	P	N	R	C	P	G	I	K	K	A	G	E	U	R	S	D	N	I

# Lab Equipment 2

