

IT: Universal Indicator

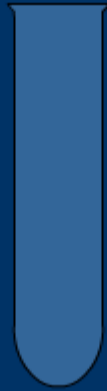
pH 1

pH 6

pH 7

pH 9

pH 14



Can you drag the test tubes containing solutions and universal indicator to the correct location?



Check Answer

Reset

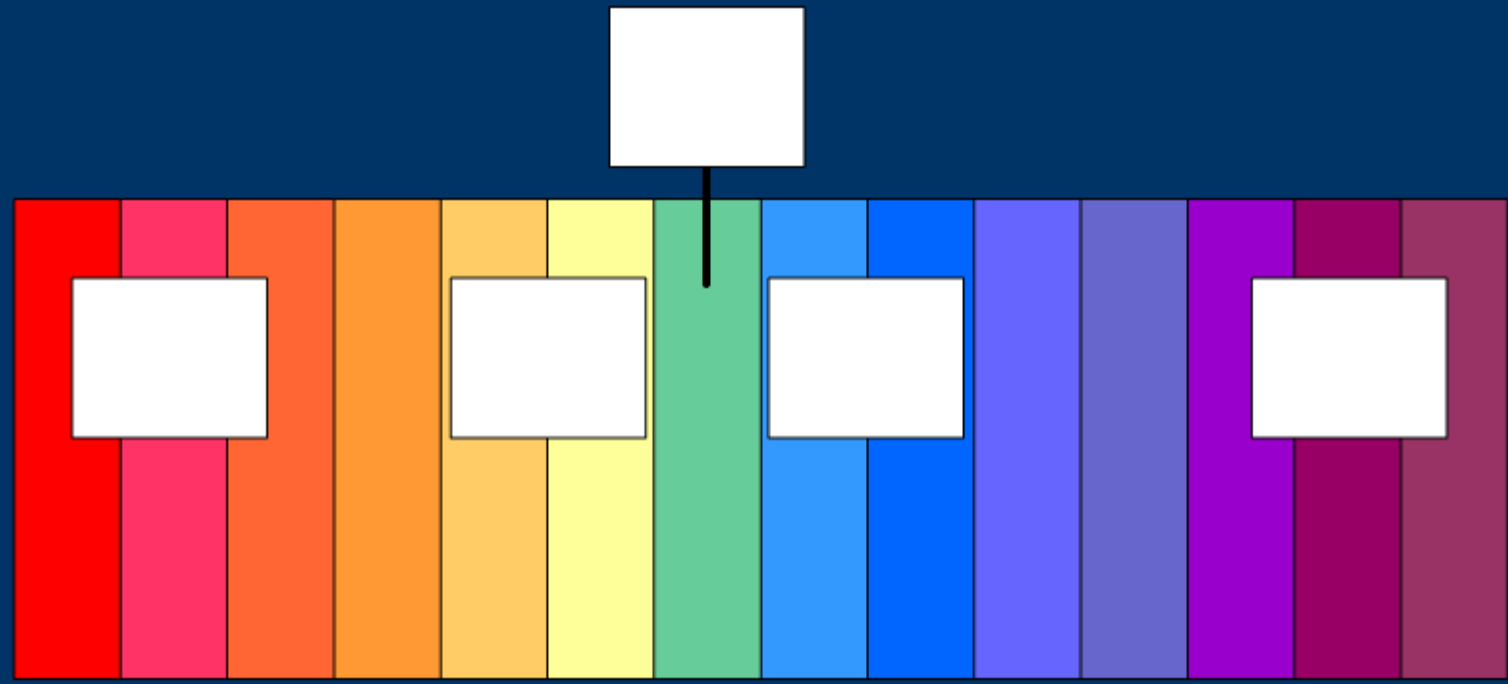
Click on a test tube to drag it.

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IT: Universal Indicator

Drag the descriptions to the correct part of the pH scale...



weak acid

strong alkali

weak alkali

neutral

strong acid

Check Answer

Reset

Click on a box to drag it.

Investigating Litmus

GO



What colour will
litmus solution turn in
an acidic solution?



*acidic
solution*

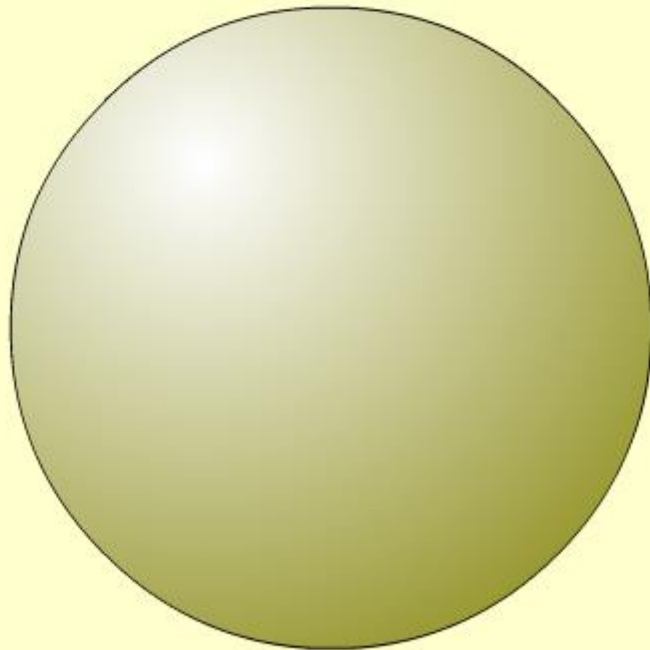
Exercise: Apparatus



Draw a diagram for the apparatus shown in the photograph.

A Model Of The Lithium Atom

GO



Lithium atom



Exercise: Particles

1. Which three particles make up an atom?
Neutron, proton and electron
2. Which two particles are found in the nucleus?
Proton and neutron
3. Which particle has a positive charge?
The proton
4. Which particle has a negative charge?
The electron
5. Which particle orbits the atom?
The electron

Exercise: Which Elements?

1. For the compounds below, write down the names of the elements present.
 - a) NH_3 Nitrogen and hydrogen
 - b) CH_4 Carbon and hydrogen
 - c) H_2SO_4 Hydrogen, sulfur and oxygen
 - d) CaCl_2 Calcium and chlorine
 - e) CO Carbon and oxygen
 - f) NaCl Sodium and chlorine
 - g) SiO_2 Silicon and oxygen
 - h) Fe_2O_3 Iron and oxygen



IT: Chemical Symbols

Drag the chemical symbol to the correct element.

Chlorine



Copper



Ag

Ca

Argon



Iron



K

Fe

Potassium



Silver



Cl

Ar

Calcium



Gold



Cu

Au

Check Answer

Reset

Click on a symbol to drag it.

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CFCs

CFCs in the atmosphere are known to deplete the ozone layer.

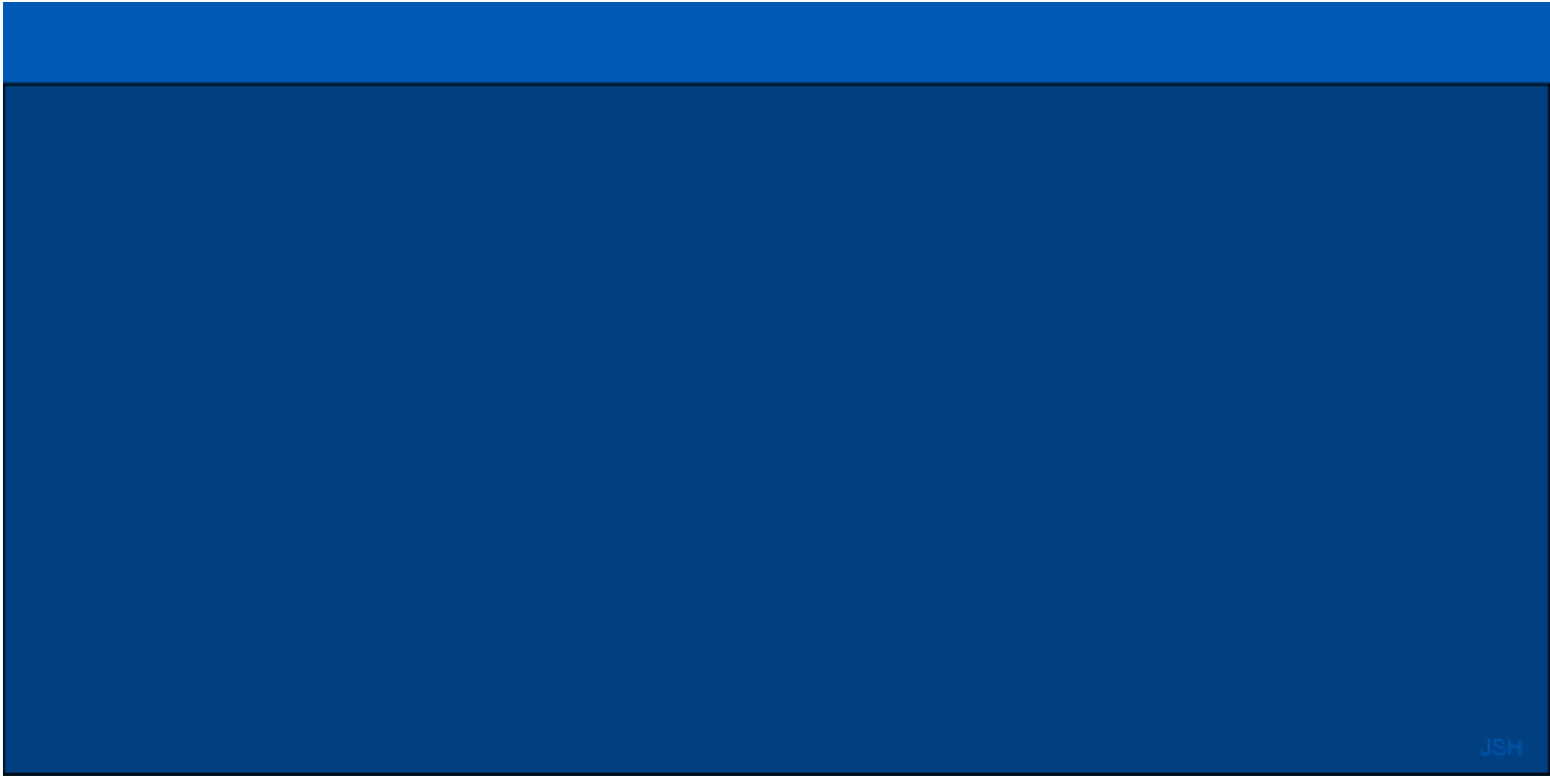
They are a group of **man-made chemicals** that were first produced in the first half of the twentieth century.

CFCs usage includes as coolants in refrigeration systems and air conditioners, as solvents to clean electronic components and in the manufacture of plastic foam.

Countries are now trying to **limit the production of CFCs** because of their adverse effect upon the ozone layer.

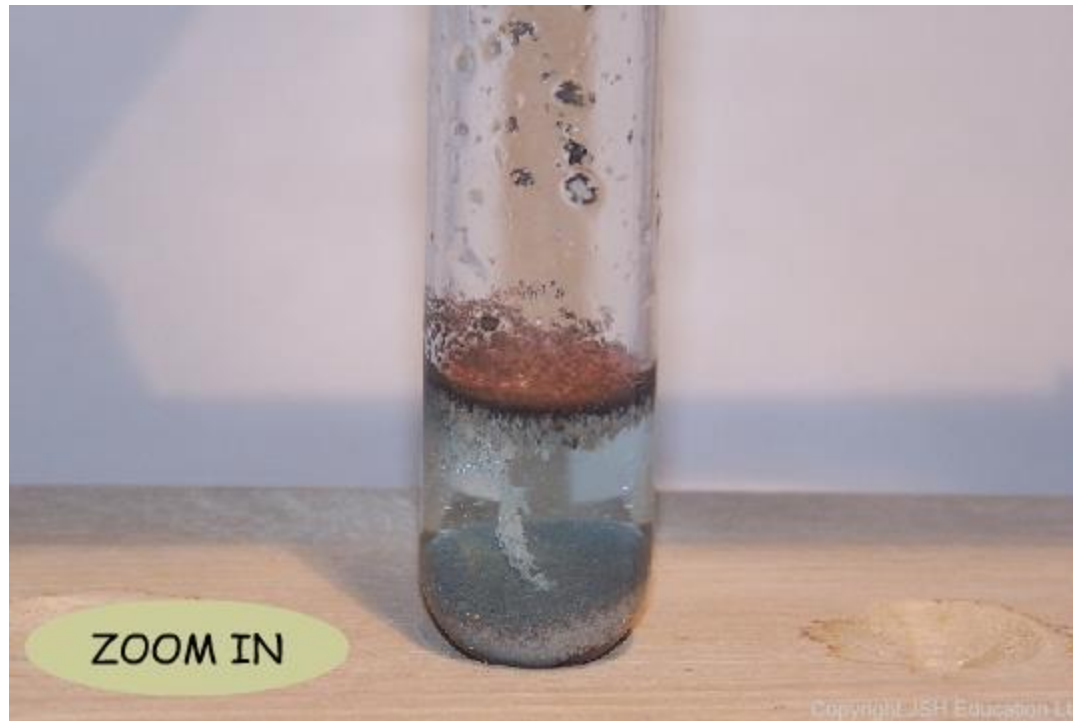
Even though **worldwide production of CFCs has decreased**, because the CFCs remain active in the atmosphere for many years it is expected that the ozone layer will only recover by the middle of the twenty first century.

UK Production Of CFCs



Comment on the information shown.

Copper & Silver



Above you can see some copper powder that has just been added to silver nitrate solution. When copper is added to a solution of silver nitrate, copper will displace the silver from the solution.

IT: The Reactivity Series

Drag the elements to their place in the reactivity series.

reactivity decreases

potassium
aluminium
tin
copper
silver
gold

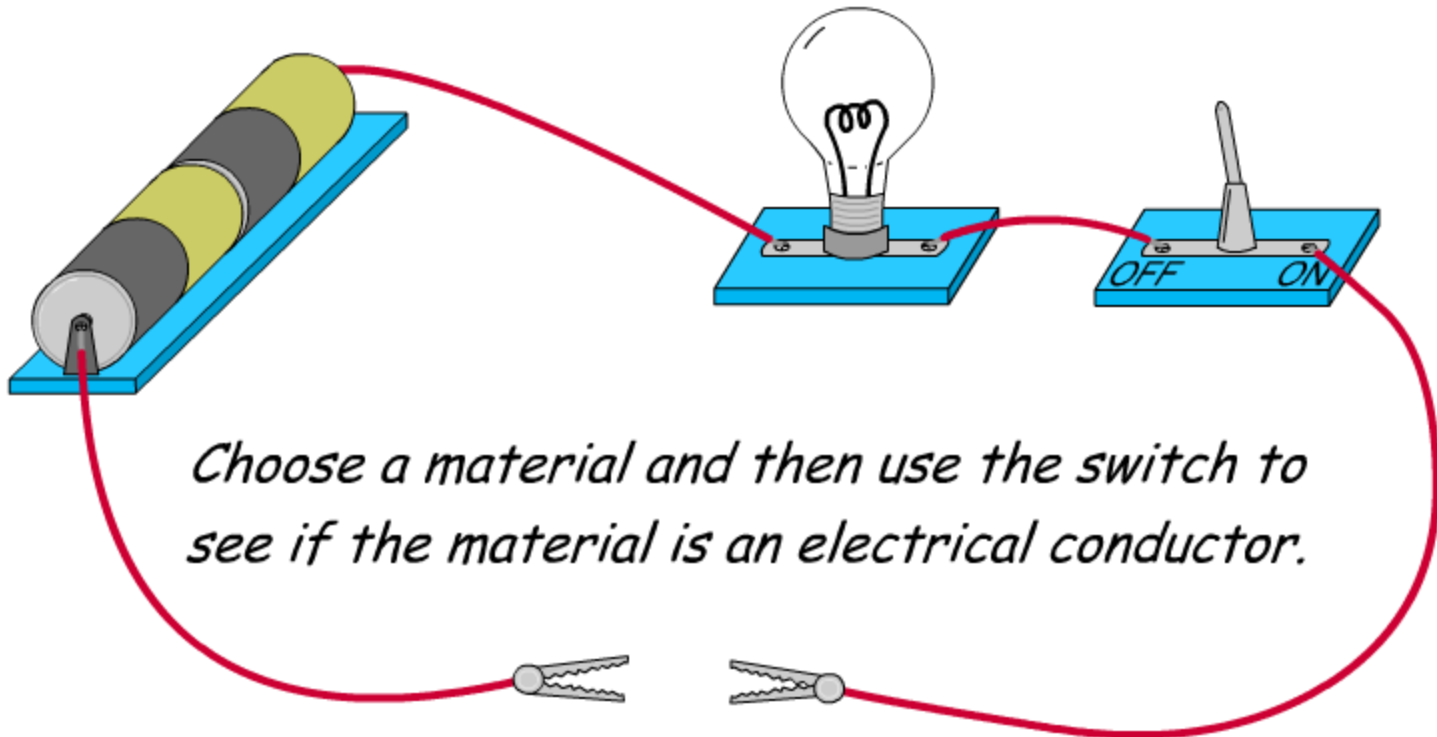
platinum
magnesium
lead
sodium
zinc
calcium
iron
lithium

Check Answer Reset

Click on an element to drag it.

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Testing Materials



copper

wood

steel

glass

graphite

plastic

iron

aluminium

Properties Of Metals



Metals share many common properties. Can you name any?

Metamorphic Viewer



Metamorphic Rocks

Slate

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The image shows a software interface for viewing metamorphic rocks. On the left, there is a vertical column of six small thumbnail images of different rock samples. The top thumbnail is a dark, layered rock, which is currently selected and shown in a large central window. The central window displays a large, dark grey, layered rock sample. The background of the interface is blue. The title 'Metamorphic Rocks' is written in a white, italicized font at the top right. The word 'Slate' is written in a white, italicized font at the bottom left of the central window. The copyright notice 'Copyright JSH Education Ltd' is at the bottom right.

IT: Hazard Symbols

Toxic

Explosive

Corrosive

Dangerous for the environment

Flammable

Oxidising

Irritant

Harmful

Can you identify the hazard symbol shown?



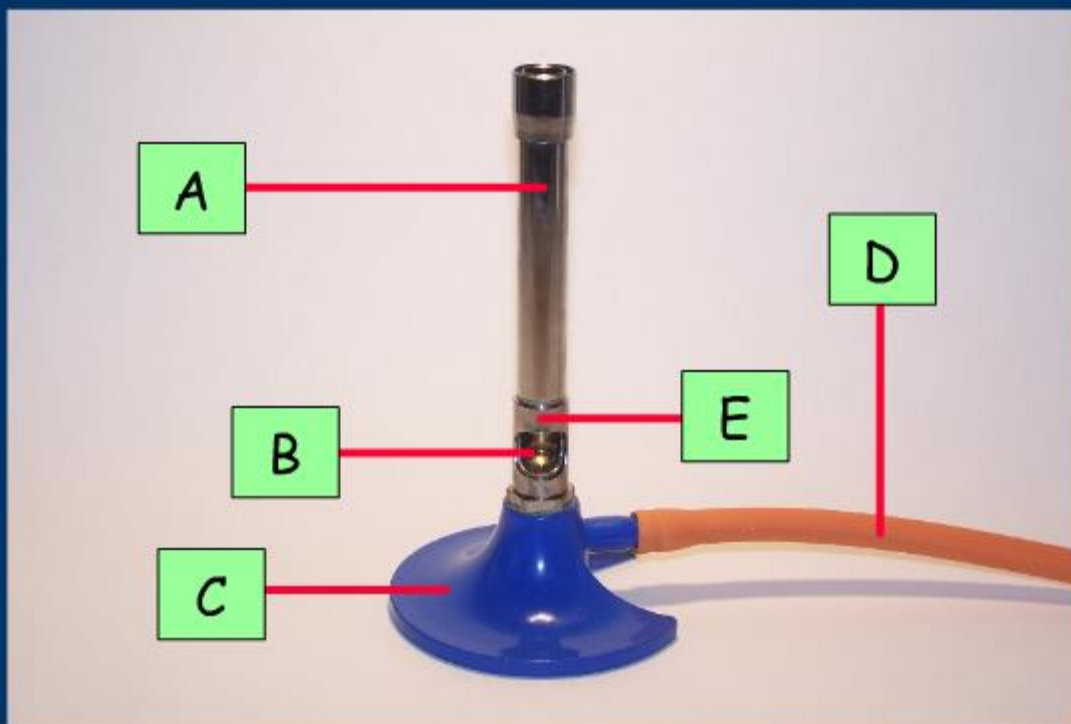
Check Answer

Reset

Choose your answer.

IT: The Bunsen Burner

Which of the following is the air-hole?



Check Answer

Reset

Choose your answer.

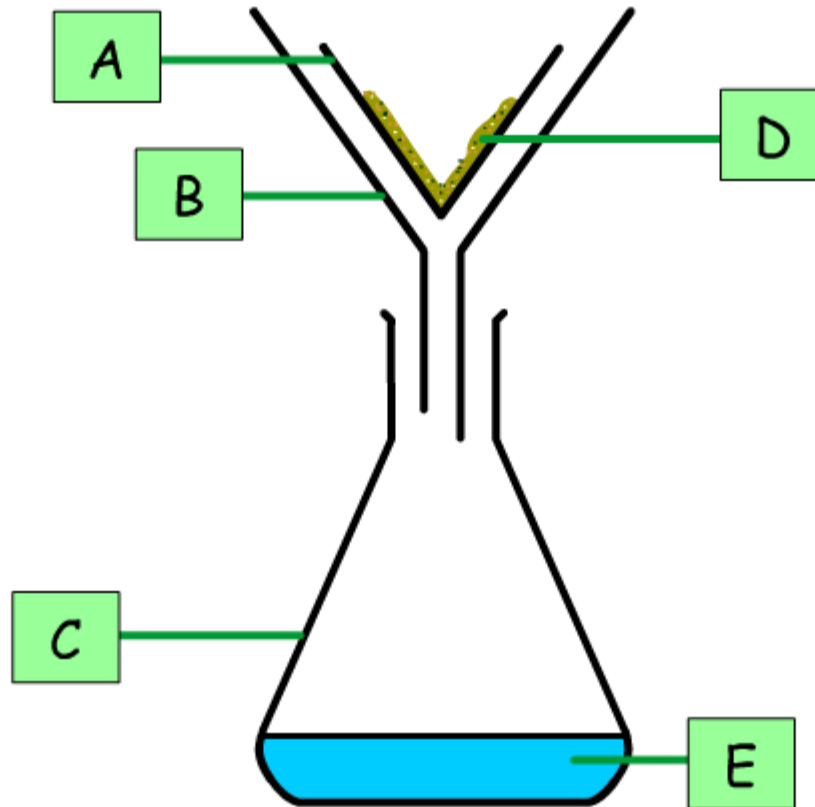
Settling



Gravity causes the sand particles to settle to the base of the beaker.

IT: Filtration

Which of the following points to the filtrate?



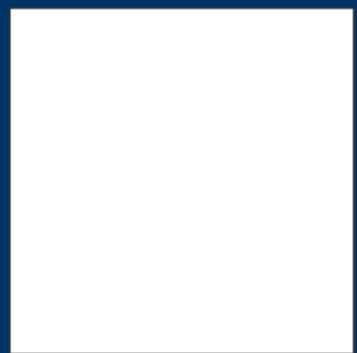
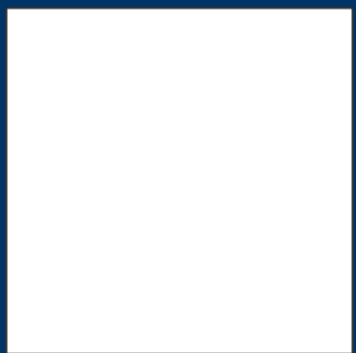
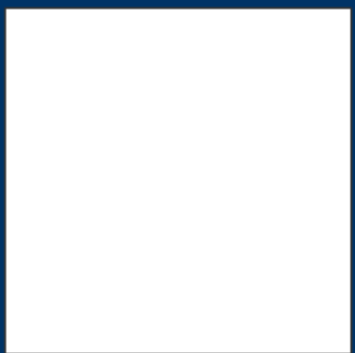
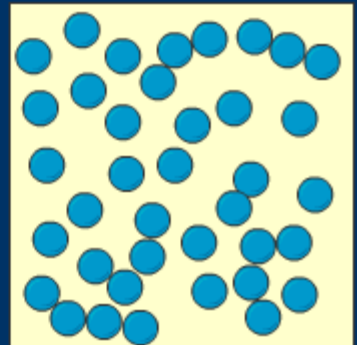
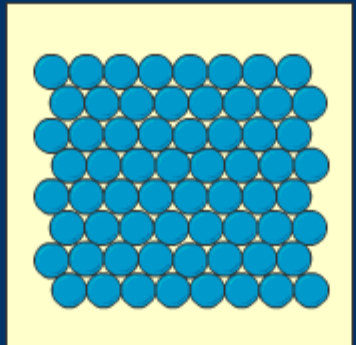
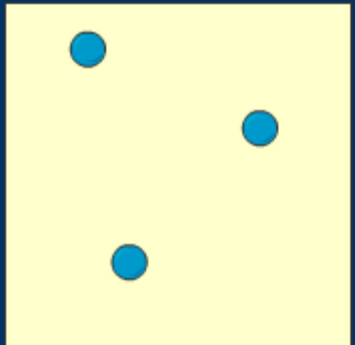
Check Answer

Reset

Choose your answer.

IT: States Of Matter

Identify the states...



gas

liquid

solid

Check Answer

Reset

Click on a box to drag it.