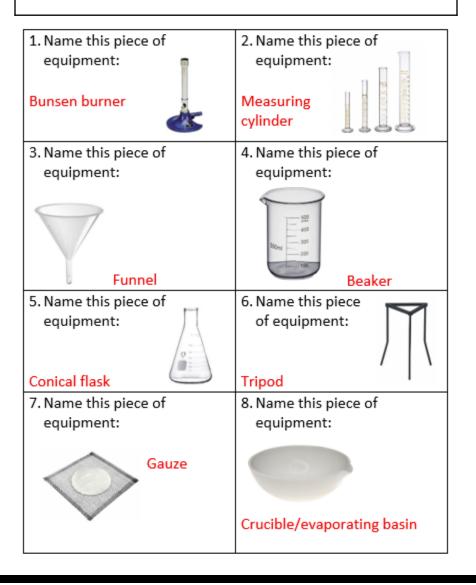
Name: Form:

SCIENCE FUNDAMENTAL KNOWLEDGE QUIZ BOOKLET

Key Stage 3





1. What organ system is being shown by the images below?	Blood is made up of 4 different things, platelets, plasma, red blood cells and White blood cells
Circulatory system	
3. A is a plant	4. A carnivore only eats
that makes its own food	
from sunlight. These are	
always at the start.	Meat
Producer	
5. Animals can be split into 2	6 are single-
groups, vertebrates and	celled organisms. Some can
invertebrates. Vertebrates	help us, like the ones in our
means they have a	gut that help us digest food.
	Others can make us sick.
Backbone	Bacteria
Grass - Grasshopper - Mossas - Out	Grass Grasshopper Mouse Owl
7. The producer in the food	8. The primary consumer in
chain is	the food chain is
Grass	Grasshopper

Everything around us is made of matter. There 3 different states of matter are solid, liquid and	2. Water is a liquid, when it boils it turns into a gas, this process is called
are sond, fiquid and	
Gas	Evaporation
Ods Ods	Evaporation
3. The point at which a	4. When a gas is cooled, it
substance melts at (turns	changes from a gas to a
from a solid to a liquid) is	liquid. This process is called
called its	<u></u>
Boiling point	Condensation
5. The water cycle shows us	6. Water can fall from clouds,
how moves	it can be rain, hail or snow.
around our planet.	All these can be called
Water	
	Precipitation
7. The heats up	8. The boiling point of water is
water in rivers and lakes,	'C. This is when it
causing it to evaporate.	changes from a liquid to a
	gas.
Sun	100°C

What is this a symbol for in an electrical circuit?	2. What is this a symbol for in an electrical circuit?
Wire	Bulb
3. Some materials do not allow	4. Some materials let
electricity to pass through	electricity pass through
them. These materials are	them easily. These materials
known as electrical	are known as electrical
Insulators	Conductors
5. The pitch of a sound is how	6. Pitch is measured in
quickly the sound wave	<u></u>
	Hertz (Hz) or <u>KiloHertz</u> (<u>KHz</u>)
Travels	
7. Sound is a type of energy	8. Which part of your body do
made by	you use to hear sound?
	Ear
Vibrations	

1. Name the piece of 2. What is this piece of equipment (in 1) used equipment for? Heating Bunsen Burner What should always 4. Name this piece of be worn when using the equipment. piece of equipment in 1? Goggles Beaker 6. In a solid the Name the equipment particles are arranged labelled A below: and all touching. Heat proof Ordered mat 7. In a liquid the 8. In a gas the particles particles are arranged are arranged randomly and all and touching. Random Not touching

Homework 6

- What is a term used to describe the equipment, instruments, tools or devices used in science? **Apparatus**
- 2. Name this piece of equipment.



Thermometer

- 3. What is the piece of 4. Name this piece of equipment in 2 used to measure?
 - equipment.



Gauze

Temperature

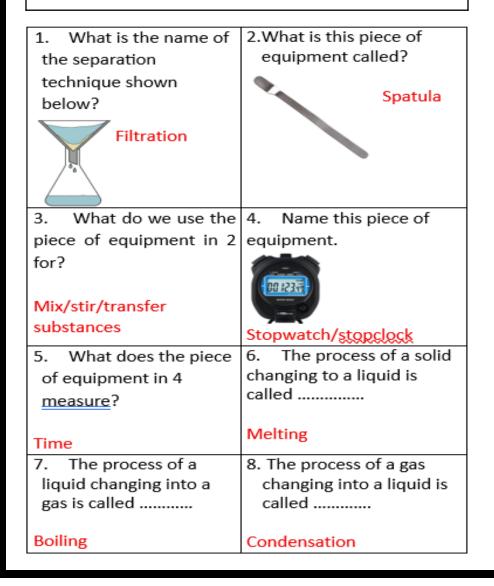
- 5. Name the equipment below.
- What do we call the variable that we change in an investigation?

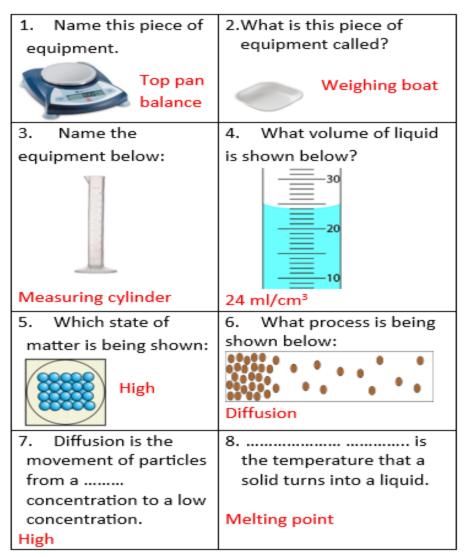


Independent variable

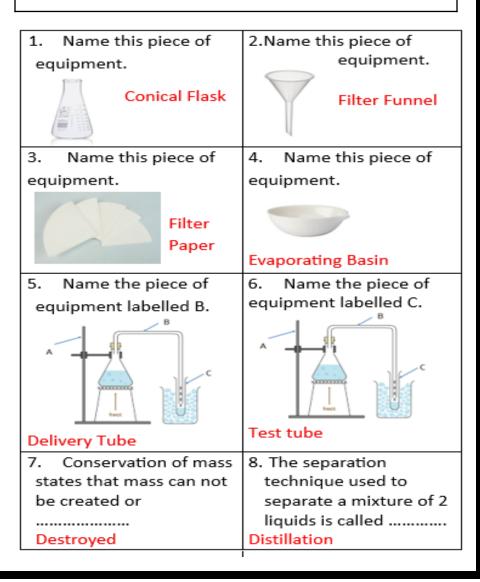
Tripod

- 7 What do we call the variable that we record in an investigation? Dependent variable
- 8. What do we call the variable that we keep the same in an investigation? Control variable





 Which side of the results table does the independent variable go on? 	2.Which side of the results table does the dependent variable go on?
Left side	Right side
3. Boiling point is the temperature that a liquid turns into a	4. The melting point is the same as the
Gas 5. A pure substance is made of only Type of substance. One	Freezing point 6. A contains 2 or more different substances that are not chemically joined, they can be separated. Mixture
7. Ais a substance that is dissolved in a solvent	8. A is the liquid that a solute dissolves into.
Solute	Solvent



1. What are the standard	2.What are the standard units for mass?
units for length?	units for mass:
Meters (m)	Kilograms (Kg)
3. What are the standard	4. What are the
units for time?	standard units for force?
Seconds (s)	Newtons (N)
5. Read the length off the	6. Name the piece of
ruler below:	equipment
4.5 cm	Force meter
7. What is the force acting upwards on an object in a gas or liquid called?	8. What is the force acting downwards due to gravity called?
Upthrust	Weight

What do we call an object or situation that	2.There are 3 things included in a risk
may be harmful?	assessment, hazards,
Hazard	risks and
	Safety precautions
	(control measure)
3. A statement about a	4. When results are
research question that	compared for the same
suggests the result of the	group, using the same
investigation is called the	method, giving the same
	results, the data is
Hypothesis	Repeatable
5. The force pushing	6. The force pushing
back against a falling	something forwards is
object is called	called
	Thrust
Air resistance	Inrust
7. What is the name of	8. Forces always act in
the force, when pushing	
upwards when 2 solids	
are in contact?	
	Pairs
Normal contact	

1. When results are compared to a different group, or using a different method the data is called	2.There are 3 things included in a risk assessment, hazards, risks and
7. The force, is the sum of the forces acting on an object. Resultant	8. The word deform, means to change

Which part of the microscope do we place the object/sample/slide on?	2.What is the lens at the top of the microscope that we look through called?
Stage	Eye piece lens
3. What is the part of	4. What is the name
the microscope called that	given to the large
is above the stage and	focussing wheel, used for
there are 3 of them, x4,	rough adjustments to
x10 an x40.	focus?
Objective lens 5. We always start with the lowest magnification when using a	Coarse focus 6. Friction is an example of a force.
microscope, to give the widest field of	Contact
7. Friction is a force caused by interaction of objects.	8. Air resistance andresistance are another 2 types of frictional forces.
	Water

What should be adjusted if the image under a microscope is blurry? Fine focus	2.What do we add to a sample being looked at under a microscope to make the cells and organelles more visible? A stain (iodine)
3. When preparing a slide we use a thin layer of tissue to allow to pass through. Light	4can not be created or destroyed. It is only transferred. Energy
5. Energy is the ability to do	6. A battery has a Store of energy. Chemical
7. A moving object has astore of energy Kinetic	8. An object that is high up has a store ofenergy. Gravitational potential energy