SCIENCE CHECKPOINT TEST 4

Question 1

This question is about forces.

Which of the following are examples of forces?

Tick (✓) the **three** correct boxes.

a beam of light from a torch	☐
a girl unscrewing a jar	☐
a horse pulling a cart	☐
a man pushing a trolley	☐
the sound of a drum	☐

Question 2

Here is a food chain.

plankton   crustaceans   trout   otter
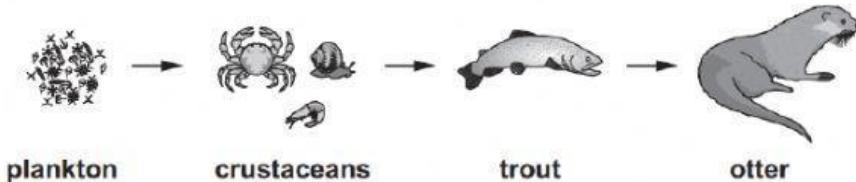
Complete the sentences.

All food chains begin with a ....

In this food chain this is the ....

This living organism gets its energy from the ....

Question 3.

Priya investigates electrical conductors.

She uses different materials in an electrical circuit.
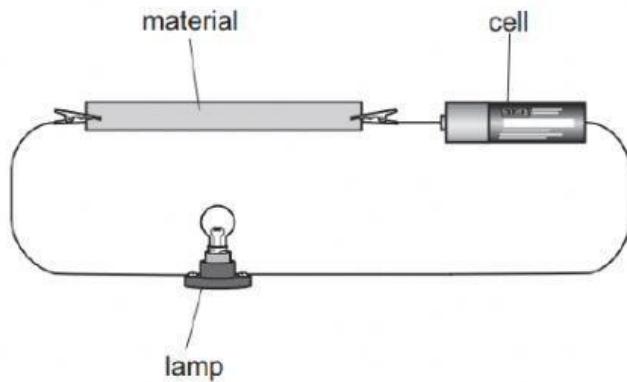
Which material is a good conductor of electricity?

Circle the correct answer.

copper

glass

plastic

wood

Which material is **not** a good conductor of electricity?

Circle the correct answer.

brass

gold

rubber

silver

Question 4.

Insects pollinate flowers.

(a) Circle **one** statement that is **true** about the flowers pollinated by insects.

flowers can be bright colours

flowers close at night

leaves are large

petals are always small

stems bend easily

Question 5.

This question is about sound.

(a) Decide if these sentences are true or false.

Tick (✓) the correct box next to each sentence.

	true	false
When a string of a guitar vibrates a sound is produced.	☐	☐
A unit of loudness of sound is the decibel.	☐	☐

(b) Decide if these sentences are true or false.

Tick (✓) the correct box next to each sentence.

	true	false
Sound travels at the same speed in all solid materials.	☐	☐
The speed of sound in space is the same as the speed of sound in air.	☐	☐

Question 6.

Mixtures can often be separated.

This is a list of ways of separating mixtures.

filtration

evaporation

magnetic attraction

sieving

**(a)** Use the words from this list to complete the table.

mixture	method of separation
salt and water	
steel powder and lumps of steel	
sand and water	
steel powder and copper powder	

Question 7.

Humans have bony skeletons inside their bodies.

Draw a line from each label to the correct part of the body.

One has been done for you.

skull

ribs

pelvis

leg bone

back bone

elbow

hand bone

knee cap

foot bone
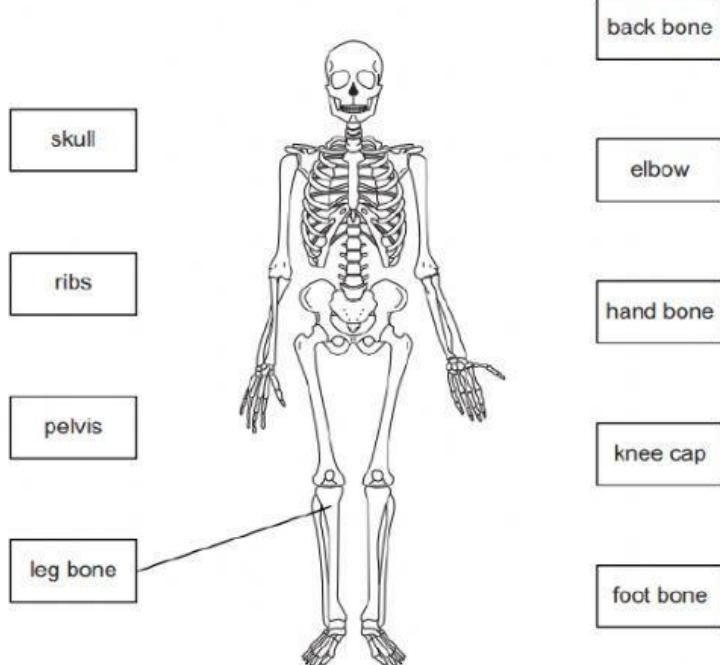
Question 8.

Mike is in a dark room.

He puts a puppet between a light source and a screen.
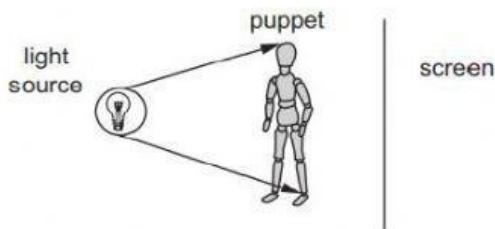
(a) Light travels from the light source.

Light is blocked by the puppet.

A dark area appears on the screen.

What is the name of this dark area?

....

(b) Mike moves the puppet.

He does **not** move the light source.

He does **not** move the screen.

Draw lines from the **size of image** to the correct **distance of puppet from screen**.

size of image   distance of puppet from screen

at the mid-point

furthest from
the screen

closest to
the screen
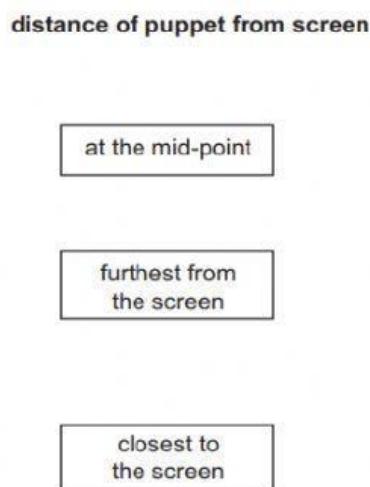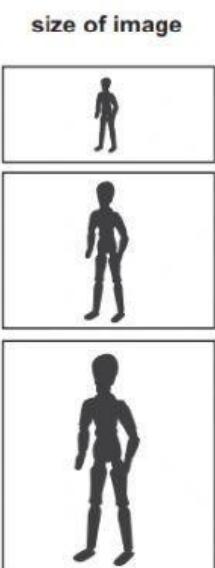
Question 9.

Gabriela investigates how a water clock works.

- She **accurately** measures a volume of water.

- She pours the water into a filter funnel.

- She times how long it takes for the water to pass through.

She repeats this with different volumes of water.

filter funnel

beaker
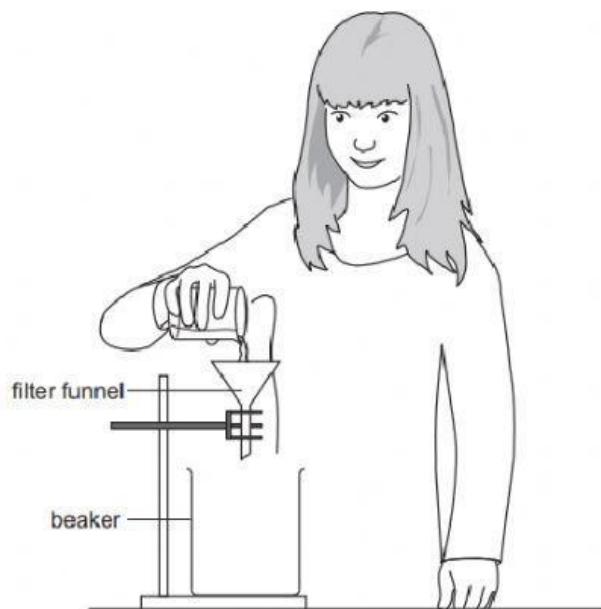
(a) Which apparatus does she use to measure **accurately** the volume of water?

Tick the correct apparatus

(b) Here are her results.

volume = 15
time = 30

volume = 10
time = 20

volume = 25
time = 40

volume = 5
time = 10
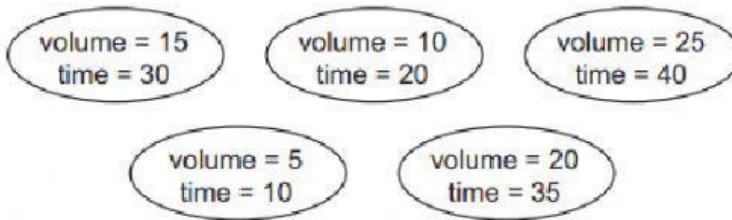
volume = 20
time = 35

Put her results in the table in the correct order.

volume of water	time taken

(c) What did she forget to add to the headings in the table?

....

Question 10.

Seeds are dispersed.

(a) Sophia disperses seeds.
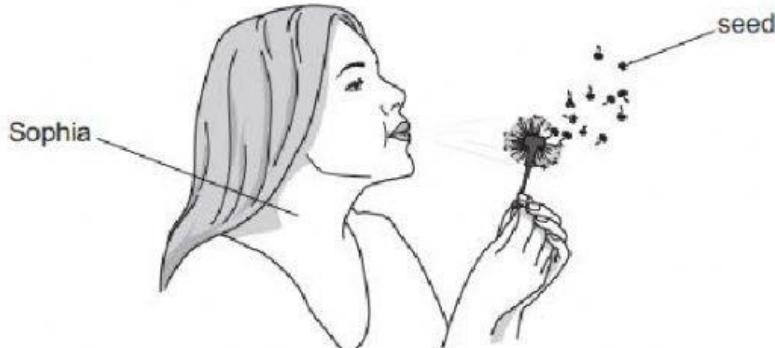
What kind of seed dispersal is Sophia using?

Circle the correct answer.

animal dispersal

insect dispersal

self-dispersal

water dispersal

wind dispersal

Chen disperses seeds.
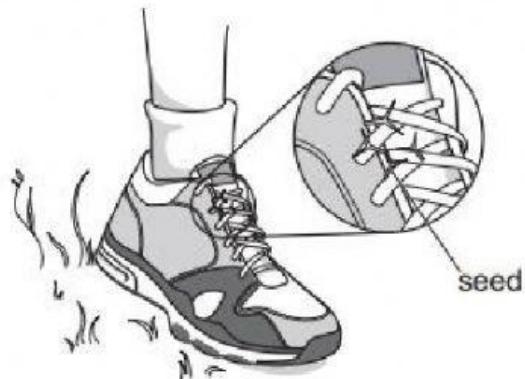
seed

What kind of seed dispersal is Chen using?

Circle the correct answer.

animal dispersal

insect dispersal

self-dispersal

water dispersal

wind dispersal