Science Practice 6

Lily measures how long it takes for a block to slide down a ramp
She covers the ramp in different materials.

Test number	Condition of the ramp
1	uncovered
2	covered with wax
3	covered with sandpaper

What is Lily comparing in this experiment?

A the amount of friction acting on the block

B the amount of gravity acting on the block

C the amount of friction acting on the ramp

D the amount of gravity acting on the ramp

Look at the actions below.

Which action is an observation?

A gathering the equipment for a plant investigation

B measuring how much a plant grows each day for one week

C predicting how much a plant will grow in one week

D explaining why a plant grew differently under certain conditions

What role do honeybees play in the life cycle of some flowering plants?

A Honeybees help spread plant seeds.

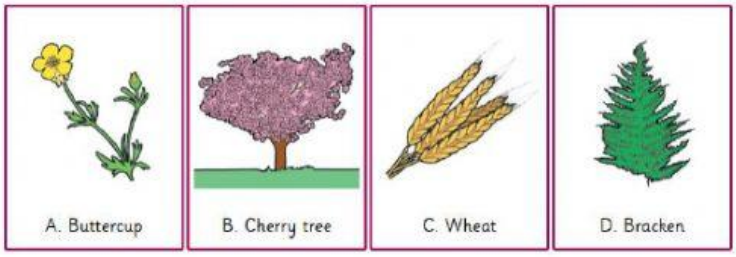
B Honeybees help plants reproduce.

C Honeybees help to make plants' food.

D Honeybees help to protect plants.

LIVEWORKSHEETS

Identify the **non-flowering** plant.



Jenna plants tomato plants in two different types of soil.

After one month, the plant in soil 1 has grown taller than the plant in soil 2.

Jenna would know that the type of soil had caused the difference in plant growth if she had...

- A kept one plant in a warmer place than the other plant.
- B given the plants the same volume of water.
- C checked both plants every day.
- D put one plant in a cupboard and one plant on a window sill.

Jack observes an object and writes down some of its properties.

	Object Observations
	shiny
	heavy
	hard to break

The object is **most** likely to be made from...

A. paper. | B. metal. | C. glass. | D. plastic.

LIVEWORKSHEETS

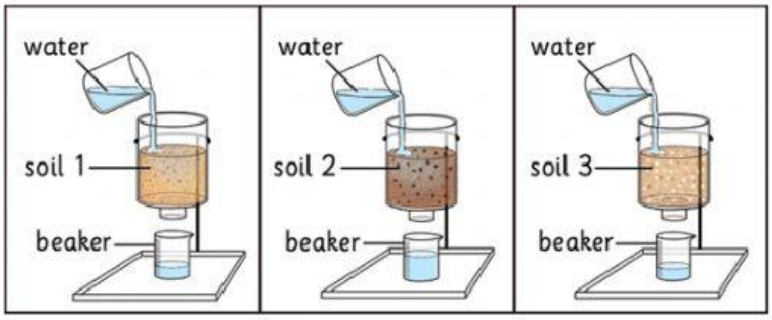
The table below shows the properties of four materials.

Material	Does it conduct electricity?	Is it expensive?	Can it be made long and bendable?
rope	no	no	yes
copper	yes	no	yes
gold	yes	yes	yes
wood	no	no	no

Which material should be used to make a cheap electrical wire?

A. rope | B. copper | C. gold | D. wood

Adam investigates which type of soil holds the most water.
He fills containers with different types of soil.
Adam pours the same volume of water into each container and measures how much drains out.



Adam repeats the investigation.
Which variable is it **most** important to keep the same?

A. the volume of water added | B. the volume of water drained | C. the shape of the collection beaker | D. the size of the collection beaker

LIVEWORKSHEETS

Which mixture can be separated by filtering?

A sand and water

B salt and sugar

C oil and vinegar

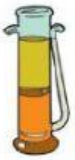
D rice and flour

Which **cannot** be separated using a sieve?

A. pasta and water

B. meatballs and sauce

C. juice and fruit



D. oil and vinegar

Mrs Patel has four bowls made of different materials.

She pours hot water into each of the bowls.

Mrs Patel touches the outside of the bowls.

Which material is most likely to be the first to feel hot?

A. plastic | B. wood | C. glass | D. metal

LIVEWORKSHEETS

Bike frames can be made from different metals. It is best if a bike frame is light and strong.

Look at the table below.

Metal	Melting point (°C)	Strength	Mass of 1cm^3 (g)
iron	1538	strong	8
aluminium	660	strong	3
copper	1084	medium	9
zinc	907	strong	7

Which metal would be best for a bike frame?

A. iron | B. aluminium | C. copper | D. zinc

Decide if each statement about the Sun, Earth and Moon is **true** or **false**.

	True	False
The Sun, Earth and Moon are all the same size.	☐	☐
The Sun, Earth and Moon are all roughly spherical.	☐	☐
The Sun, Earth and Moon are all the same colour.	☐	☐

Decide if each statement about our solar system is **true** or **false**.

	True	False
The Earth is the only planet that has a moon.	☐	☐
The Sun is a star	☐	☐
The Earth is one of many planets orbiting the Sun.	☐	☐

LIVEWORKSHEETS

Which orbit takes one year?

A The Earth orbiting the Moon.

B The Earth orbiting the Sun.

C The Sun orbiting the Earth.

D The Moon orbiting the Earth.

Which statement **best** explains why the Sun appears on the horizon every morning?

A The Earth completes one rotation on its axis each day.

B The Sun moves around the Earth once each day.

C The Earth makes a complete orbit around the Sun each day.

D The Moon stops blocking the light from the Sun each day.

The Moon orbits the Earth about once every...

A day.

B year.

C week.

D month.

LIVEWORKSHEETS