



Greek Orthodox Patriarchate School / Hanina

Final Exam for First Semester

Scholastic Year 2025/2026

Name:

Grade: Fifth Grade

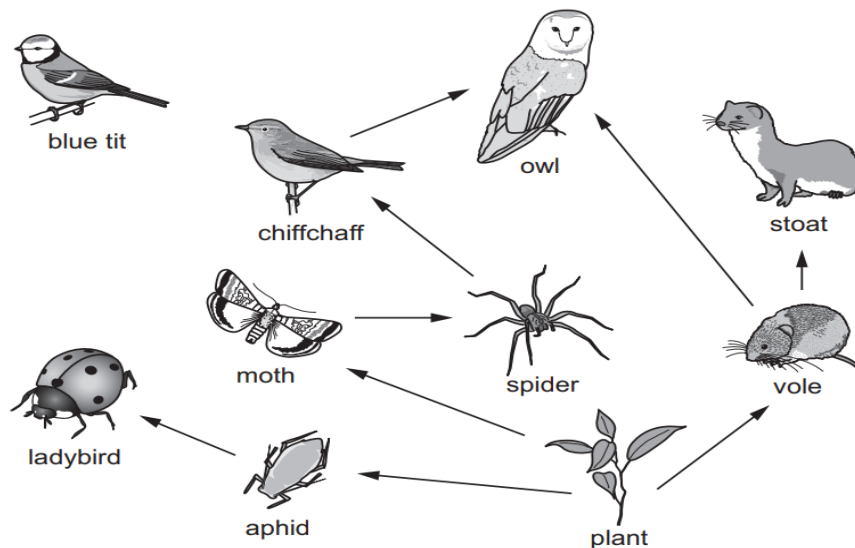
Total Marks: /40

Subject: Science

Time Duration: 1h 30 min

Day & Date: 13/12/2025

1- Look at the diagram of a food web from one habitat.



(a) The food web is **not** complete:

- the owl also eats the blue tit
- the blue tit eats the ladybird **and** the moth

Draw **three** arrows on the food web to show these relationships.

(b) How many predators in this food web feed on the vole?

.....

(c) Describe how energy from the plant is transferred to the spider.

.....  
.....  
.....  
.....

2- This question is about gases.

(a) Tick (✓) **all** the correct statements about gases.

gases do **not** have a fixed shape

☐

oxygen is a gas at room temperature

☐

particles in a gas only vibrate

☐

gases do **not** have mass

☐

gases have a fixed volume

☐

gases are easily compressed

☐

(b) Name the process when a gas changes to a liquid.

.....

(c) Some gases damage living things.

Circle the name of this property of gases.

**conductivity**

**insoluble**

**magnetic**

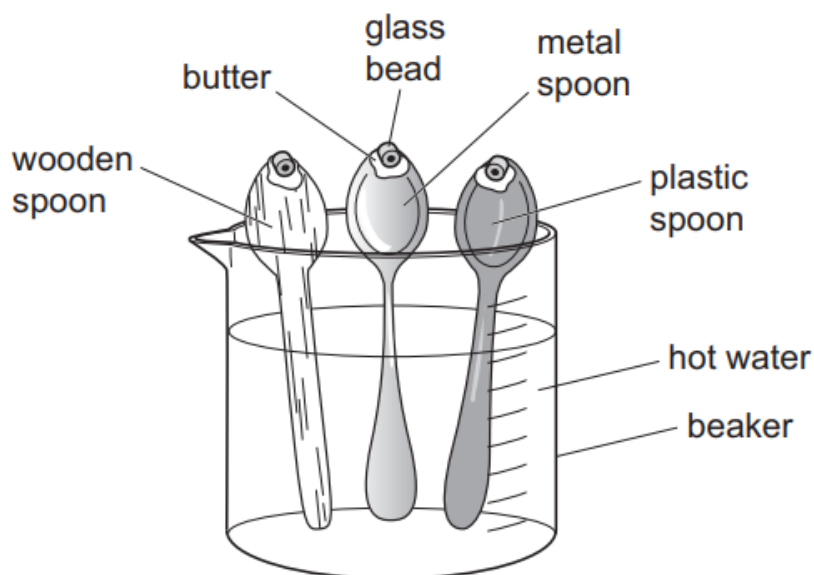
**toxic**

3- Jamila investigates thermal conductivity.

In her experiment Jamila:

- puts three different spoons into a beaker
- uses butter to stick glass beads onto the end of each spoon
- pours hot water into the beaker
- observes when the glass beads fall from the spoons.

The diagram shows the equipment she uses.



Jamila writes down this observation;

**'The glass bead from the metal spoon falls first.  
The glass bead on the plastic spoon falls next.  
The glass bead on the wooden spoon stayed the longest.'**

**(a)** The glass beads fall when the butter melts.

The butter melts when the heat from the water reaches the end of the spoon.

Write down **one** conclusion about the thermal conductivity of the different spoons.

.....

.....

- (b) Describe one possible safety risk in this investigation and how to reduce this risk.

safety risk .....

.....

how to reduce this risk .....

.....

.....

- (c) Thermal conductivity is one property of a substance.

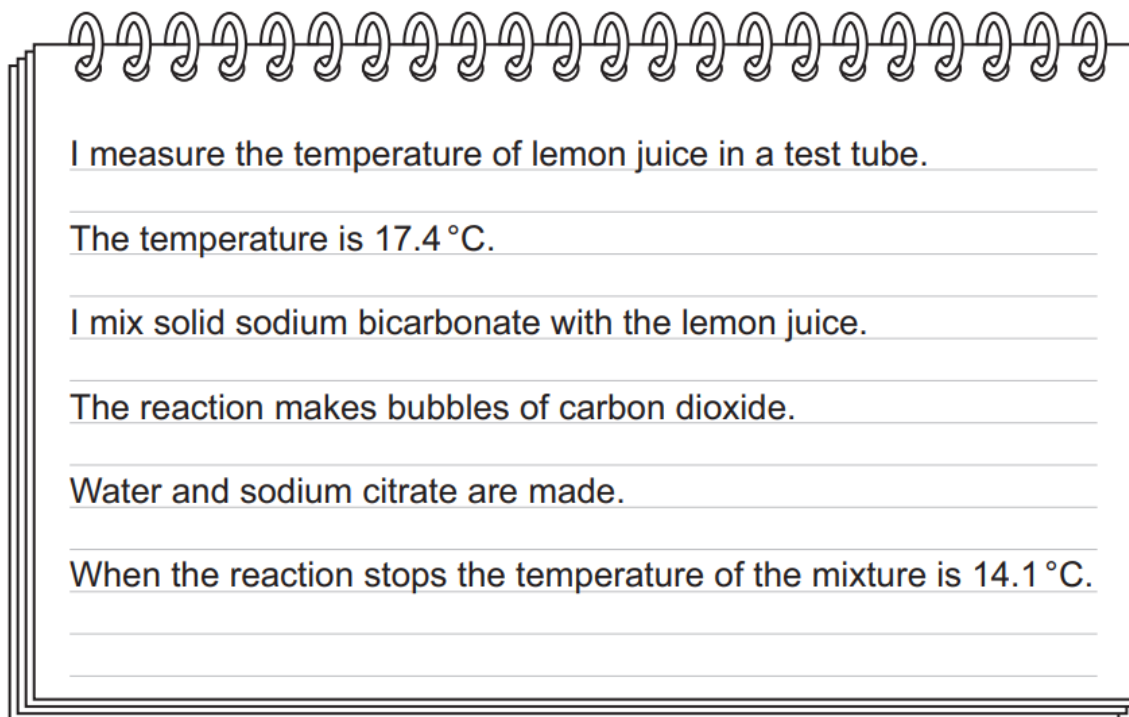
Write down the **other** type of **conductivity** that is a property of substances.

.....

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4-

Mike describes a chemical reaction in his notebook.



I measure the temperature of lemon juice in a test tube.

The temperature is 17.4 °C.

I mix solid sodium bicarbonate with the lemon juice.

The reaction makes bubbles of carbon dioxide.

Water and sodium citrate are made.

When the reaction stops the temperature of the mixture is 14.1 °C.

(a) Name **one** product in this chemical reaction.

.....

(b) Mike knows it is a chemical reaction because there is a temperature change.

Write down **one other** of his observations that shows it is a chemical reaction.

.....

(c) Calculate the temperature change for this chemical reaction.

temperature change ..... °C

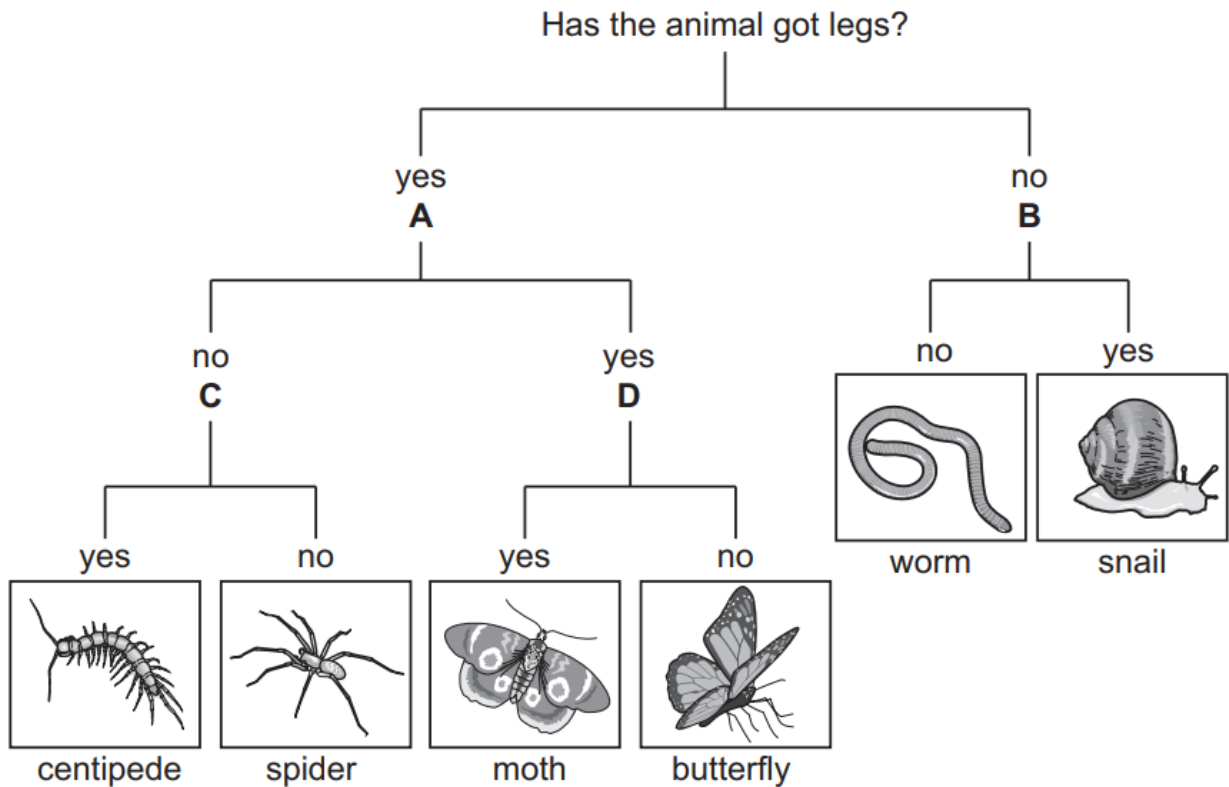
(d) Water freezes and changes into solid ice.

Explain why this is a physical change.

.....

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- 5- Gabriella investigates living things in different food webs from one habitat.
- (a) Gabriella starts to draw a key to identify some of the animals in her food webs.



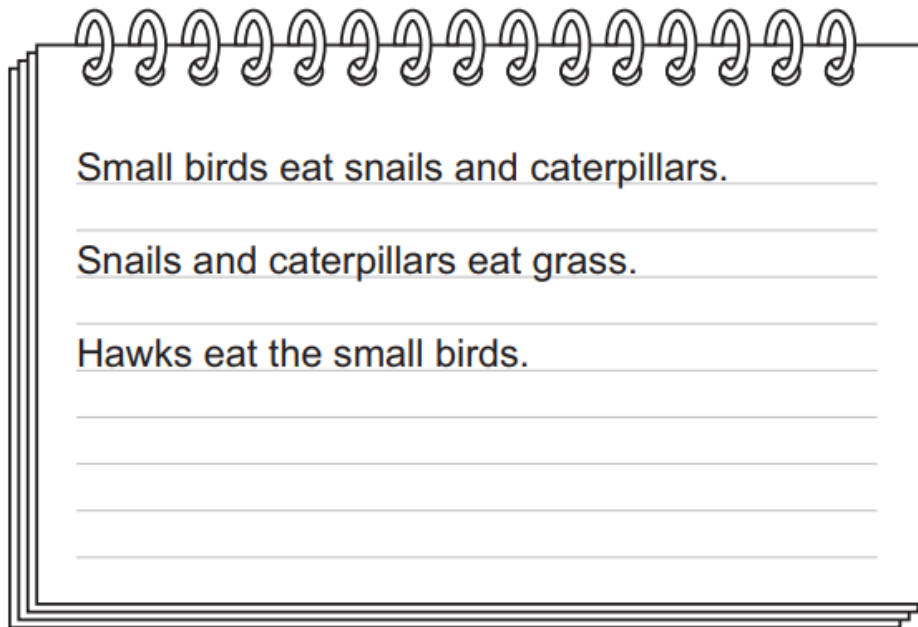
The table shows questions Gabriella uses to finish her key.

Complete the table to match the question to the correct letter on the key.

One has been done for you.

question	letter on the key
Has the animal got a shell?	
Has the animal got circles on its wings?	D
Has the animal got more than eight legs?	
Has the animal got wings?	

**(b)** Gabriella writes about five living things in one food web.



Sort the five living things into herbivores, carnivores and producers.

Complete the table.

herbivores	carnivores	producers

6-

a- In the food chain, where does the rice plant get its energy?

rice plant → grasshopper → bird

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b- Where does the grasshopper get its energy?

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c- What does the bird in the food chain eat? Do you think it only eats this food?

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d- What do the arrows in the food chain show?

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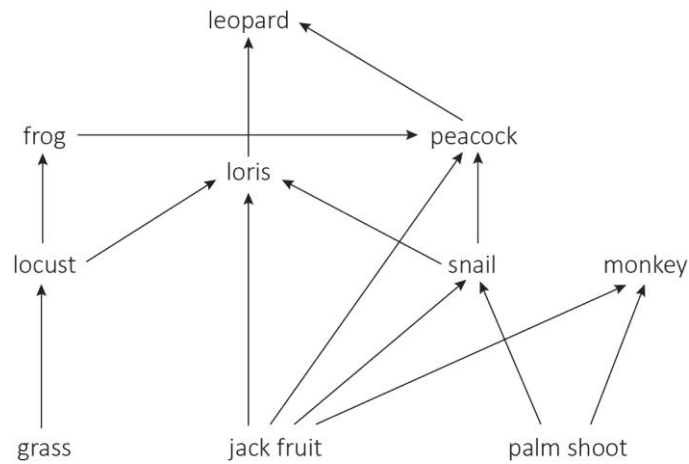
7- Place a tick (✓) in the correct columns about conductors and insulators.

Object	Conductor	Insulator
Plastic toy		
Metal key		
Wooden peg		
Coin		
Paper		

/5



8- Questions 8a–f are based on the food web below.



8 a Name two producers in the food web.

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b Name two herbivores in the food web.

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c Name two carnivores in the food web.

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d Name two omnivores in the food web.

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e Draw one food chain in the food web that has exactly three links.

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f Draw one food chain in the food web that has exactly four links.

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9- Which of these statements about energy transfers in food chains and food webs are true and which are false? Tick the correct box for each statement.

Statement	True	False
a Producers get their energy from the Sun.		
b Living things transfer some of their energy to the surroundings as heat.		
c As energy moves through a food chain, each link in the food chain gets the same amount of energy.		

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Teacher:Matilda Sahawnh