



SCIENCE REVISION PACK **UNIT 1 – HUMANS AND ANIMALS** **WHAT HAVE YOU LEARNT?**

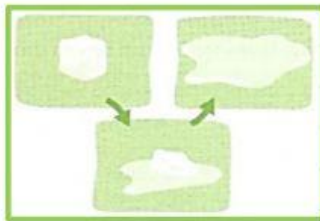
*Ms Raziya, Ms Celine &
 Mr. Mohamed are
 wishing you all the best!*

Name: _____

Year 4: _____

Q8. What is happening in the diagrams below?

- ◆ Water as a liquid is poured into the tray. It freezes in the freezer and changes to a solid.
- ◆ The ice cube is frozen but begins to melt. It changes from a solid to a liquid.
- ◆ The water in the kettle is boiling. Water vapour condense and change back to a liquid.







Q9. Match the correct word to the labels on the diagram:

Water vapour Condensation Boiling water Steam

a. _____

b. _____

c. _____

d. _____



Q10. Class 4 investigated: ‘Which substance melts the fastest?’

Here are some sentences from their report. Read the sentences. Which sentence is a:

Conclusion

Prediction

Result

- | | | |
|----|---|--|
| a. | <div style="border: 1px dashed green; width: 200px; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px dashed green; width: 200px; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px dashed green; width: 200px; height: 20px;"></div> | We think the candle wax will melt the fastest. |
| b. | <div style="border: 1px dashed green; width: 200px; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px dashed green; width: 200px; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px dashed green; width: 200px; height: 20px;"></div> | The butter melted in six seconds. |
| c. | <div style="border: 1px dashed green; width: 200px; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px dashed green; width: 200px; height: 20px; margin-bottom: 2px;"></div> <div style="border: 1px dashed green; width: 200px; height: 20px;"></div> | The substance that melted fastest was butter. |

Q11. Melting is the opposite of freezing.

- a. What must you do to change an ice cube into water?
- b. What must you do to change water into an ice cube?
- c. Is freezing reversible or irreversible?

Q12. Evaporation is the opposite of Condensation.

- a. What must you do to change water into water vapour?
- b. What must you do to change water vapour into water?
- c. Is Evaporation reversible or irreversible?

Q13. Answer the following questions:

- a. What is a reversible change?

- b. What is an irreversible change?

c. List two examples of reversible changes.

d. List two examples of irreversible changes.

Q14. Identify whether the changes below are reversible or irreversible:



Boiling water



Frying an egg



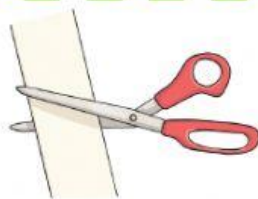
Breaking Glass



Making Lemonade



Rust on bike



Cutting paper



Fireworks



Breaking a pencil



Burning wood



Popping popcorn



Melting ice



Baking a cake

Q15. Label the parts of the candle below:

Liquid wax

Wick

Solid wax

Flame



Q16. Ahmed and Ali found out that different materials melt at different temperatures. They did some research. Here is their table of results:

Melting points of everyday materials	
Substance	Temperature (°C)
candle wax	60
chocolate	35
glass	1400
gold	1336
ice	0
salt	800
silver coin	879
sugar	180

Look at the table of melting points of everyday materials. Use the information to answer these questions.

- a** Which material has the highest melting point? _____
- b** Which material has the lowest melting point? _____
- c** Which materials could be melted safely at school or at home?

- d** Which materials require the most heat to melt? _____
- e** If the temperature in a room is around 20°C, which material would melt in the room? _____