

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



نموذج اختبار نهائي وفق الهيكل الوزاري انسابير متبوع بالإجابات

[موقع المناهج](#) ← [المناهج الإماراتية](#) ← [الصف السادس](#) ← [علوم](#) ← [الفصل الأول](#) ← [الملف](#)

تاريخ نشر الملف على موقع المناهج: 2023-11-25 16:58:05

التواصل الاجتماعي بحسب الصف السادس



روابط مواد الصف السادس على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف السادس والمادة علوم في الفصل الأول

[حل الأسئلة المقالية وفق الهيكل الوزاري](#)

1

[الأسئلة الكتابية المتوقعة وفق الهيكل الوزاري](#)

2

[مذكرة مراجعة لأهم مهارات المادة](#)

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4

[مراجعة امتحانية اختيار من متعدد](#)

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Time: 2 hrs. 30 minutes

Al Badiya School

Science-Term 1-Mock Exam

Name: _____ Grade 6 _____ Date: _____

This Exam contains 2 sections.

Section A - 15 MCQ Questions for 60 M

Section B – 5 Writing questions for 40 M

No Bonus questions

Section A

This section contains 15 questions each of 4M. Read all questions and options carefully and tick the correct option.

Q-1 4M

Name the given process. At which temperature the process will be faster
And why?

- a- Melting, at 40°C as particles have more kinetic energy.
- b- Diffusion, at 40°C as particles have less kinetic energy.
- c- Spreading, at 80°C as particles have more kinetic energy.
- d- Diffusion, at 80°C as particles have more kinetic energy.



Q-2 4M

We must leave small gaps on the sidewalks to avoid breaking
of the road as shown in the picture because _____.

- a- During summer particles move faster and roads gets reduced in size called thermal contraction.
- b- During winter particles move faster and roads gets reduced in size called thermal contraction.
- c- During summer particles move faster and roads gets increased in size called thermal expansion.
- d- During winter particles move slowly and roads gets increased in size called thermal expansion.



Q-3

4M

Sample	200g water (A)	20g water (B)
Temperature	25°C	25°C

Observe the above table carefully and find the correct statement.

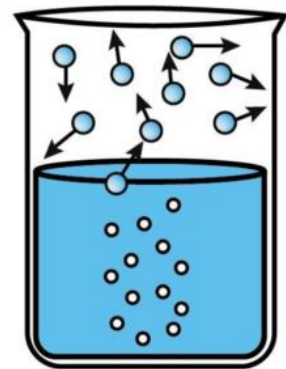
- a- Particles in both have same kinetic energy.
- b- Particles in both have different kinetic energy.
- c- Particles in A are moving faster than particles in B.
- d- Particles in B are moving slowly than particles in B.

Q-4

4M

Name the given process and choose a proper reasoning for your answer.

- a- Only top surface is vaporizing its evaporation.
- b- Vaporizing is within the liquid it's boiling.
- c- Only top surface is vaporizing its boiling.
- d- Vaporizing is within the liquid it's evaporation.

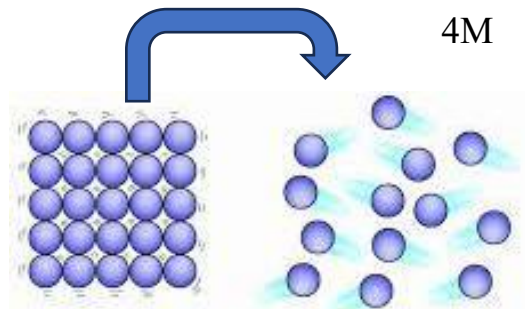


Q-5

4M

In the given changes what happens to the Kinetic and Potential energy of the particles.

- a-kinetic energy increases and potential energy decreases
- b-kinetic energy decreases and potential energy increases
- c-kinetic energy increases and potential energy increases too.
- d-kinetic energy increases and potential energy increases too.

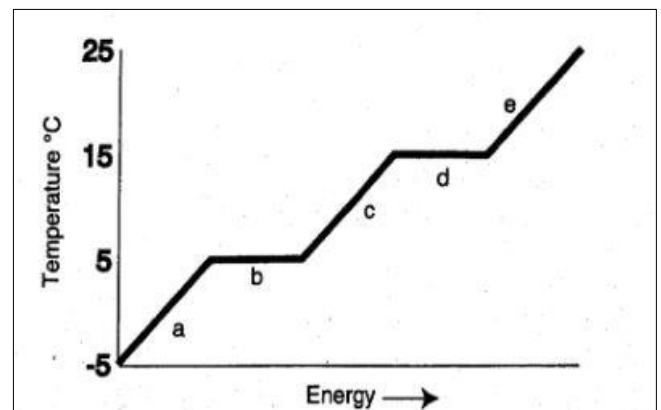


Q-6

4M

Analyze the heating curve. Which areas of the heating curve show a change in potential energy of the particles?

- 1- d
- 2- a and e
- 3- c
- 4- b and d

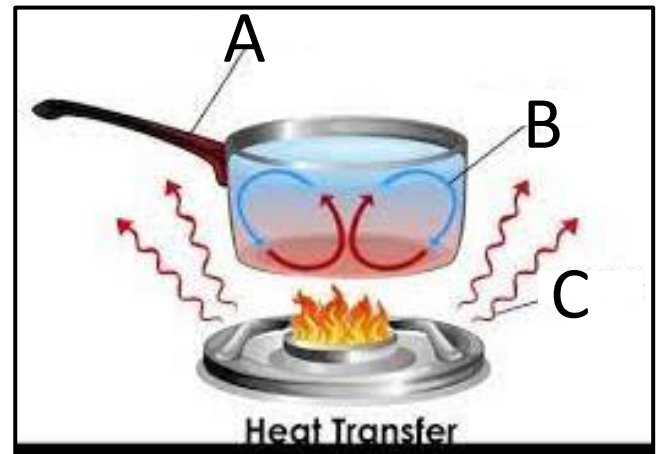


Q-7

4M

Observe the given picture carefully and identify the different modes of energy transfer.

Spots	Correct answer	Methods of heat transfer
A		1- radiation
B		2- conduction
C		3- convection

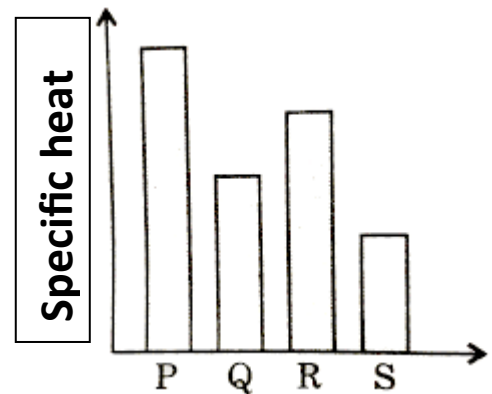


Q-8

4M

Observe the given graph of the specific heat and tick the correct option.

- a- P is an insulator as it does not heat up easily
- b- S is an insulator as it does not heat up easily
- c- P is a metal
- d- S is a metal

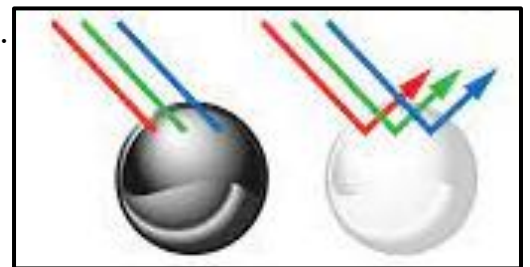


Q-9

4M

Observe the given picture and identify the correct statement.

- a- white ball will become hot faster.
- b- black ball will become hot faster.
- c- black ball is reflecting all energy.
- d- white ball is absorbing all energy.



Q-10

4M

Observe the given picture and identify the correct statement.

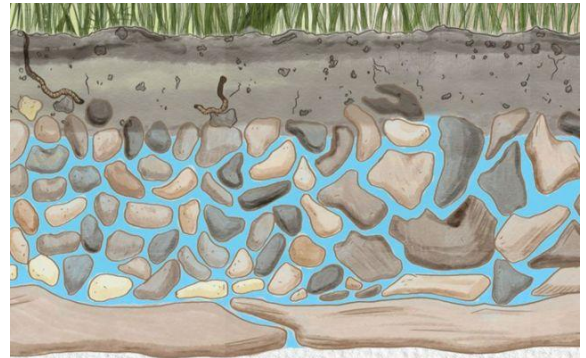
- a- When water changes from liquid to solid thermal energy is absorbed.
- b- When water changes from solid to liquid thermal energy is released.
- c- When water changes from liquid to solid thermal energy is released.
- d- When water changes from solid to liquid thermal energy is neither released nor absorbed.



Q-11

4M

Identify the aquifer and the ground water in the given picture and write the number of correct answers.



Definition	Correct answer	Methods of heat transfer
Aquifer		1-water inside the ground
Groundwater		2-water that falls back to earth
-		3-body of rock that hold water as shown in picture.

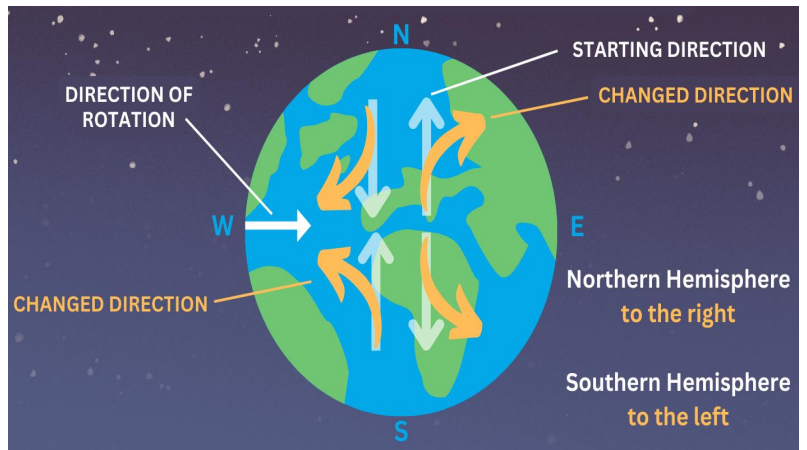
Q-12

4M

Observe the direction of moving air and water on the earth, in the given picture.

This effect is known as _____.

- a- wind effect
- b- Coriolis effect
- c- Tyndall effect
- d- Doppler effect

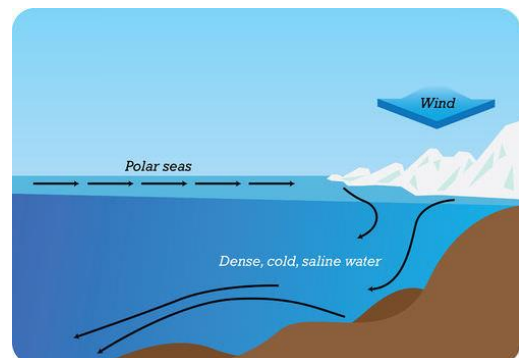


Q-13

4M

Factors that is responsible for the density current in the water is _____.

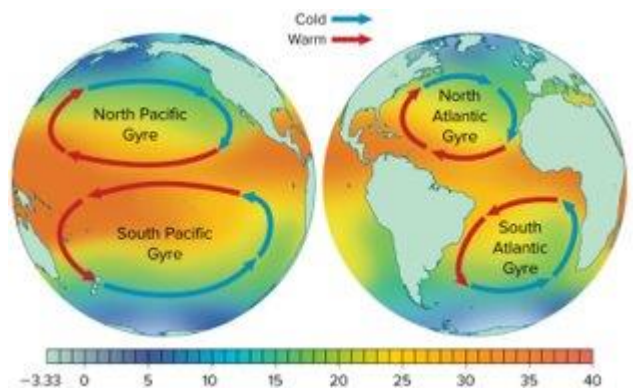
- a- Wind
- b- depth of the ocean
- c- temperature and salinity
- d- ships moving in ocean



Q-14

4M

Closely look at the picture and identify the correct statement about the movement of water in gyres of northern hemisphere and southern hemisphere.

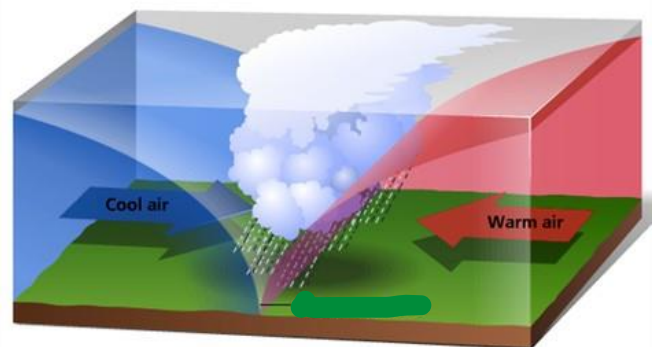


- a- Northern hemisphere gyres move clockwise.
- b- Southern hemisphere gyres move clockwise.
- c- Northern hemisphere gyres move anti clockwise.

Q-15

4M

Identify the type of the front shown in the given picture.



- a- Cold front
- b- Warm front
- c- Stationary front
- d- Occluded front

Section B

This section contains 5 questions each of 8M. Read all questions carefully and write answers. (Give reason, describe, find a solution, labelling etc.)

Q-1

8M

Thamna is heating two pots of water as shown in the picture what do you think, In which pot the temperature will change fast and why? (Hint: which pot will boil first)

Water	A	B
mass		
particles		
boil		



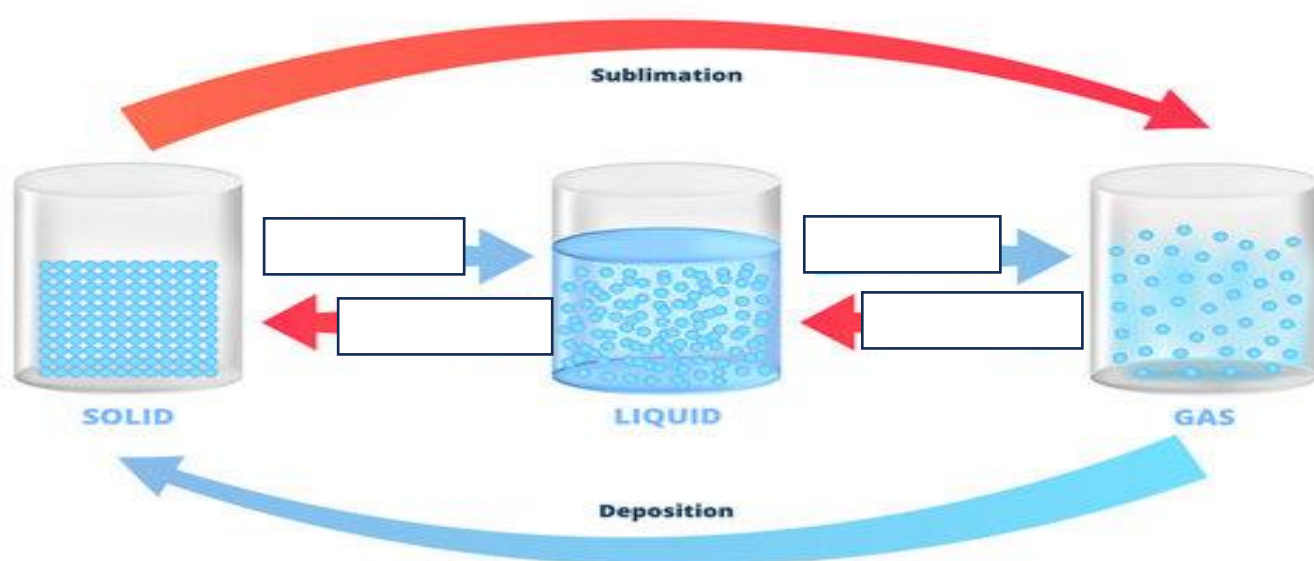
Explain the relationship between change in temperature and mass with help of the above table?

Q-2

8M

In the below picture fill the empty spaces and write the name of the change of states of mat

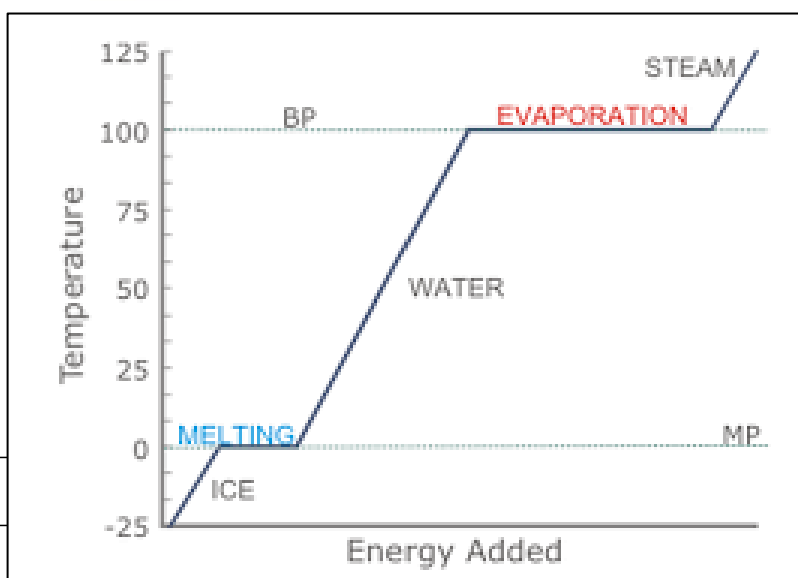
CHANGING STATES OF MATTER



a- What is the melting point of the substance in the heating curve?

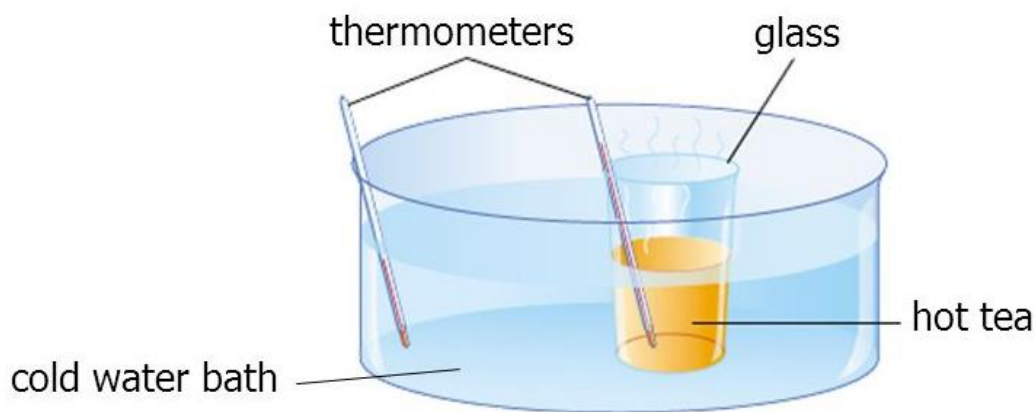
b- What happens to the temperature When it's melting?

c- Why do you think temperature?



don't change during melting or evaporation? (Hint: where the energy is used)

A glass of hot tea in a cold water bath:



	Source	Receiver
Hot/Cold		
After some time Energy (increases/decreases)		
Temperature after some time		

- a- Heat will flow from _____ to _____
 b- After some heat will stop flowing this state of matter is called _____.

Q-4

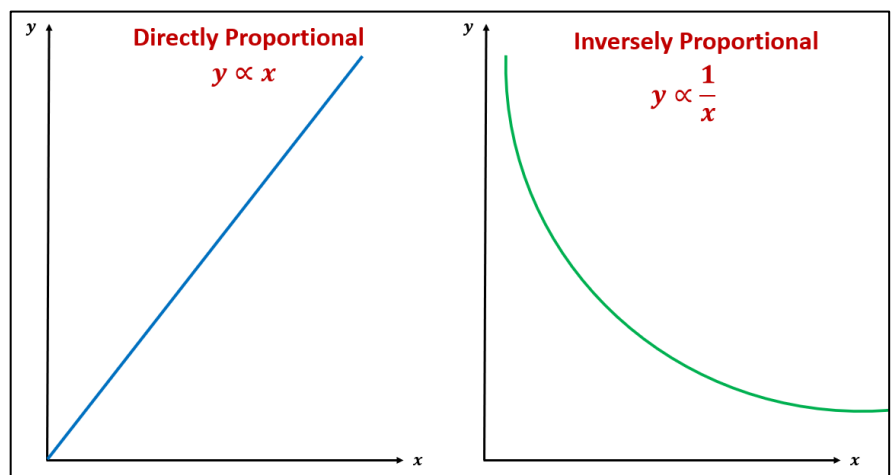
8M

- a- Which graph is correct to show the relation between Change in temperature and mass?

- b- What happen to change in temperature when mass of the substance increase.

- c- What is this relation called?

- d- Less mass = _____ particles



A

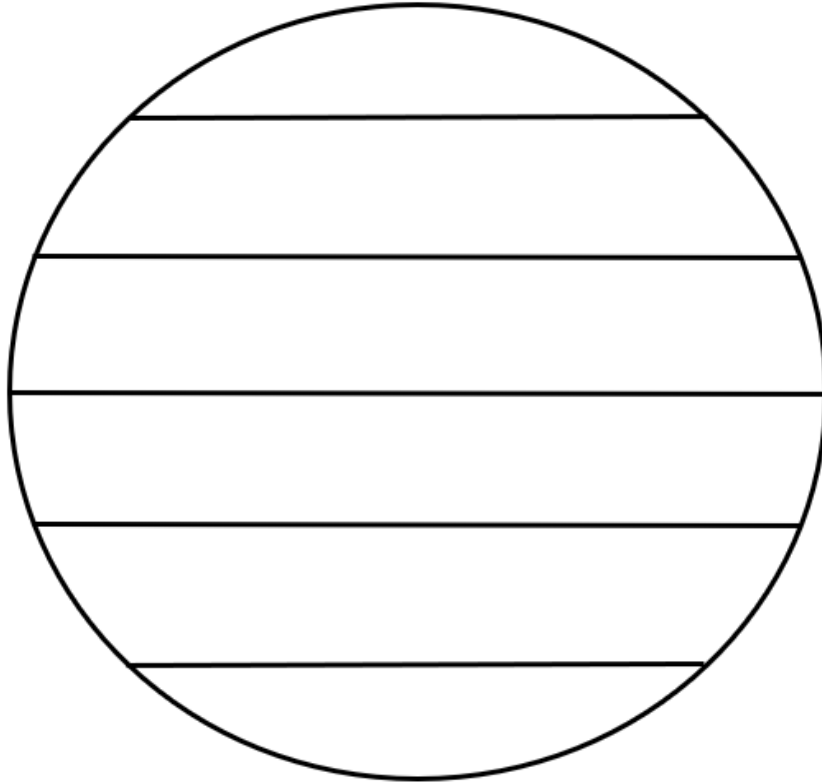
B

a- Label the given diagram with

4M

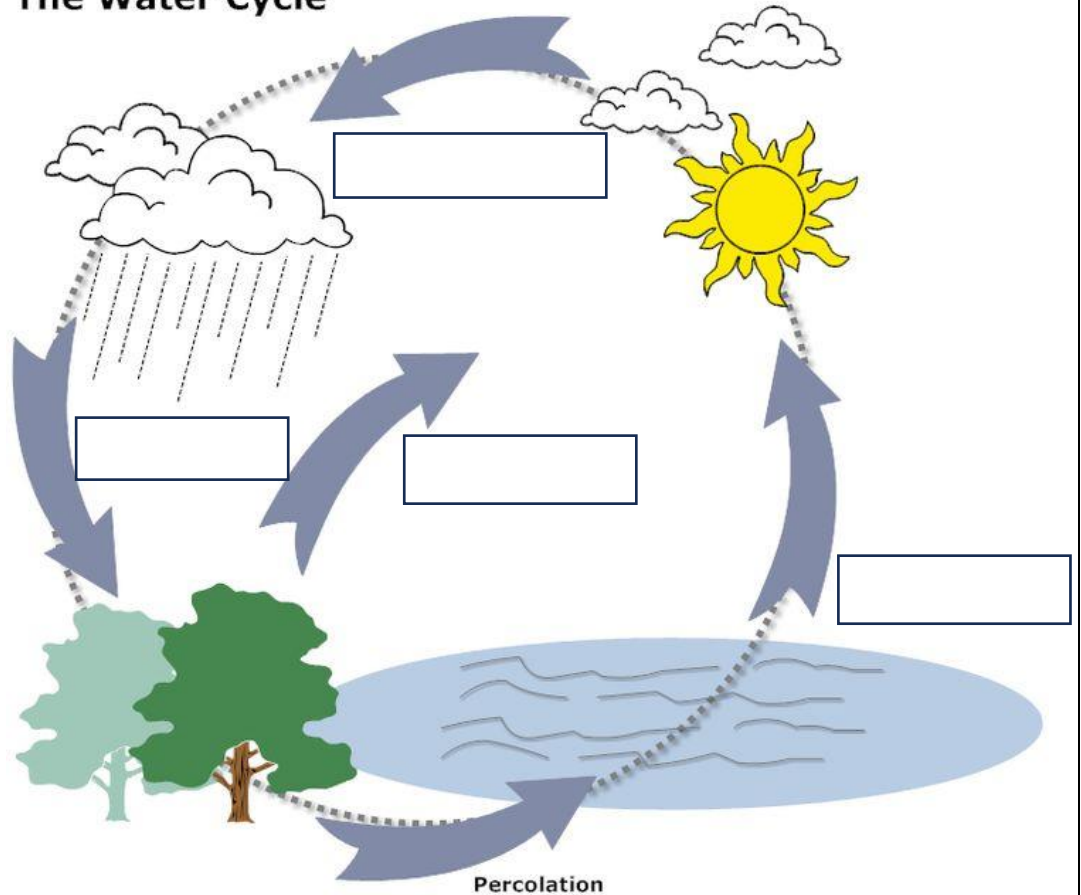
(Prevailing westerlies, Polar easterlies, Trade wind) and mark latitude and direction of the global winds.

Global Wind



b- Write
the name of the
processes involved
in the water cycle.

The Water Cycle



Time: 2 hrs. 30 minutes

Al Badiya School

Science-Term 1-Mock Exam

Name: _____

Grade 6 _____ Date: _____

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Section B – 5 Writing questions for 40 M

No Bonus questions

Section A

This section contains 15 questions each of 4M. Read all questions and options carefully and tick the correct option.

Q-1

4M

Name the given process. At which temperature the process will be faster
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- a- Melting, at 40°C as particles have more kinetic energy.
- b- Diffusion, at 40°C as particles have less kinetic energy.
- c- Spreading, at 80°C as particles have more kinetic energy.
- d- Diffusion, at 80°C as particles have more kinetic energy. ✓



Q-2

4M

We must leave small gaps on the sidewalks to avoid breaking of the road as shown in the picture because _____.

- a- During summer particles move faster and roads gets reduced in size called thermal contraction.
- b- During winter particles move faster and roads gets reduced in size called thermal contraction.
- c- During summer particles move faster and roads gets increased in size called thermal expansion. ✓
- d- During winter particles move slowly and roads gets increased in size called thermal expansion.



Q-3

4M

Sample	200g water (A)	20g water (B)
Temperature	25°C	25°C

Observe the above table carefully and find the correct statement.

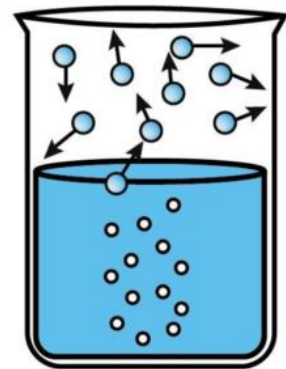
- a- Particles in both have same kinetic energy. ✓
- b- Particles in both have different kinetic energy.
- c- Particles in A are moving faster than particles in B.
- d- Particles in B are moving slowly than particles in B.

Q-4

4M

Name the given process and choose a proper reasoning for your answer.

- a- Only top surface is vaporizing its evaporation.
- b- Vaporizing is within the liquid it's boiling. ✓
- c- Only top surface is vaporizing its boiling.
- d- Vaporizing is within the liquid it's evaporation.

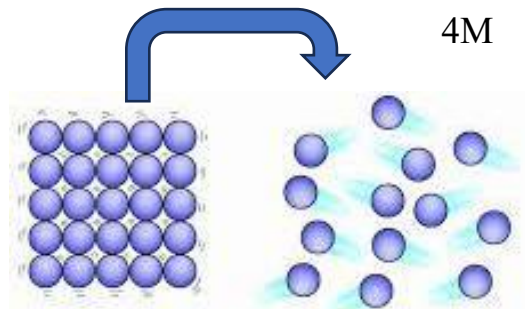


Q-5

4M

In the given changes what happens to the Kinetic and Potential energy of the particles.

- a-kinetic energy increases and potential energy decreases
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- c-kinetic energy increases and potential energy increases too.
- d-kinetic energy increases and potential energy increases too. ✓

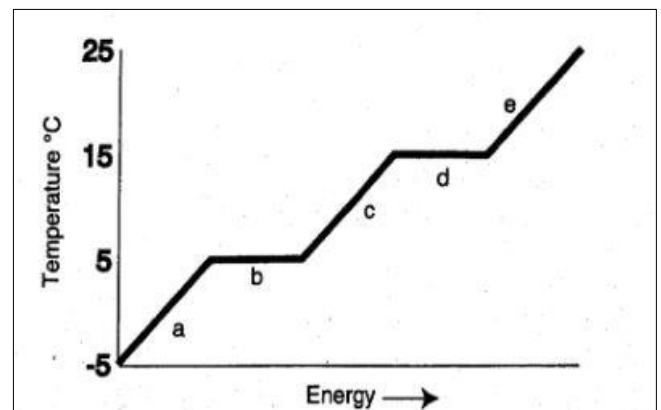


Q-6

4M

Analyze the heating curve. Which areas of the heating curve show a change in potential energy of the particles?

- 1- d
- 2- a and e
- 3- c
- 4- b and d ✓

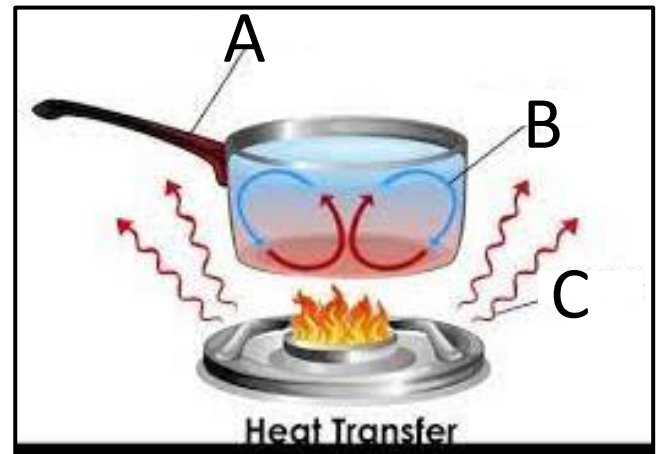


Q-7

4M

Observe the given picture carefully and identify the different modes of energy transfer.

Spots	Correct answer	Methods of heat transfer
A	C	1- radiation
B	A	2- conduction
C	B	3- convection

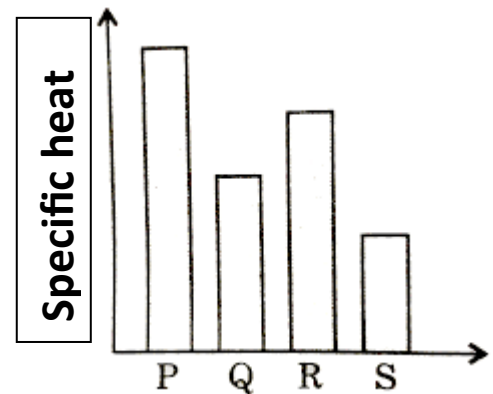


Q-8

4M

Observe the given graph of the specific heat and tick the correct option.

- a- P is an insulator as it does not heat up easily ✓
- b- S is an insulator as it does not heat up easily
- c- P is a metal
- d- S is a metal ✓

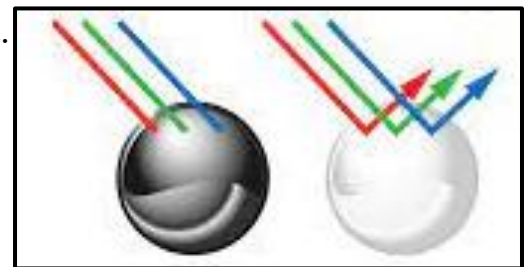


Q-9

4M

Observe the given picture and identify the correct statement.

- a- white ball will become hot faster.
- b- black ball will become hot faster. ✓
- c- black ball is reflecting all energy.
- d- white ball is absorbing all energy.



Q-10

4M

Observe the given picture and identify the correct statement.

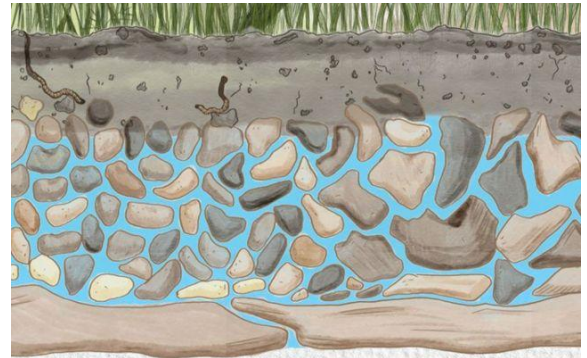
- a- When water changes from liquid to solid thermal energy is absorbed.
- b- When water changes from solid to liquid thermal energy is released.
- c- When water changes from liquid to solid thermal energy is released. ✓
- d- When water changes from solid to liquid thermal energy is neither released nor absorbed.



Q-11

4M

Identify the aquifer and the ground water in the given picture and write the number of correct answers.



Definition	Correct answer	Methods of heat transfer
Aquifer	3	1-water inside the ground
Groundwater	1	2-water that falls back to earth
-		3-body of rock that hold water as shown in picture.

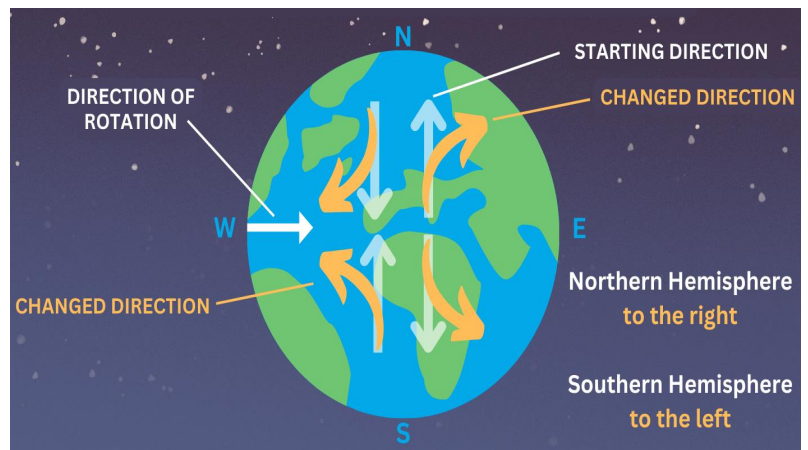
Q-12

4M

Observe the direction of moving air and water on the earth, in the given picture.

This effect is known as _____.

- a- wind effect
- b- Coriolis effect ✓
- c- Tyndall effect
- d- Doppler effect

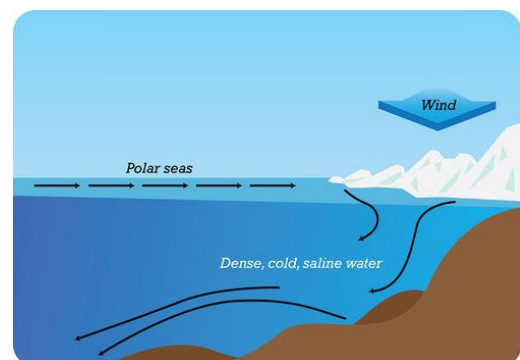


Q-13

4M

Factors that is responsible for the density current in the water is _____.

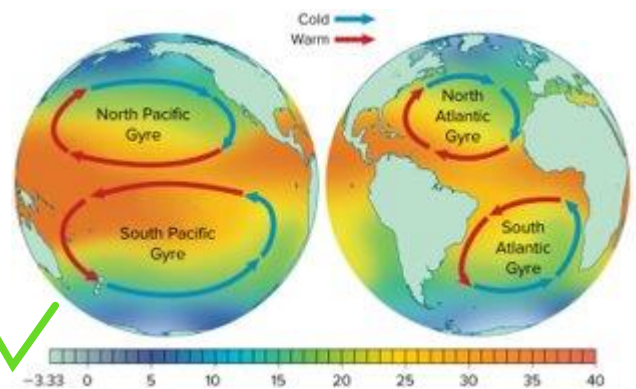
- a- Wind
- b- depth of the ocean
- c- temperature and salinity ✓
- d- ships moving in ocean



Q-14

4M

Closely look at the picture and identify the correct statement about the movement of water in gyres of northern hemisphere and southern hemisphere.

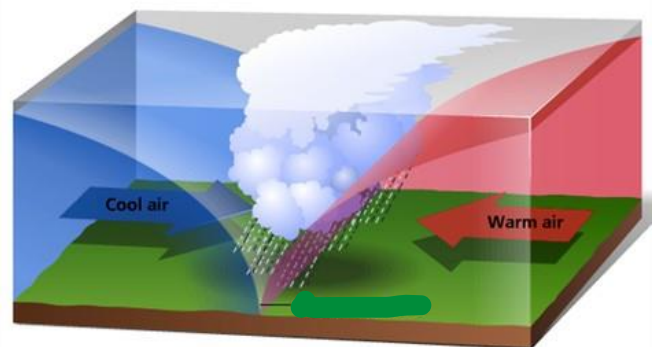


- a- Northern hemisphere gyres move clockwise. ✓
- b- Southern hemisphere gyres move clockwise.
- c- Northern hemisphere gyres move anti clockwise.

Q-15

4M

Identify the type of the front shown in the given picture.



- a- Cold front ✓
- b- Warm front
- c- Stationary front
- d- Occluded front

Section B

This section contains 5 questions each of 8M. Read all questions carefully and write answers. (Give reason, describe, find a solution, labelling etc.)

Q-1

8M

Thamna is heating two pots of water as shown in the picture what do you think, In which pot the temperature will change fast and why? (Hint: which pot will boil first)

Water	A	B
mass	less	more
particles	less	more
boil	fast	slow



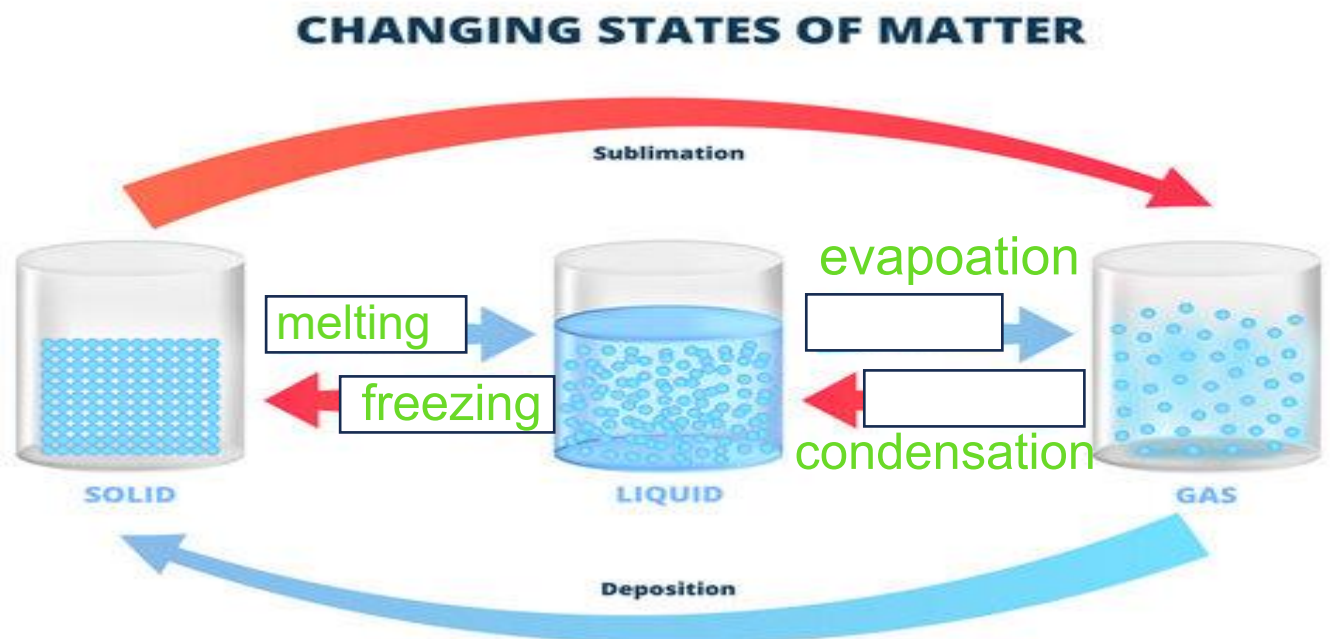
Explain the relationship between change in temperature and mass with help of the above table?

For more mass change in temperature will be less, as water with more mass takes a long time to boil.

Q-2

8M

In the below picture fill the empty spaces and write the name of the change of states of mat



a- What is the melting point of the substance in the heating curve?

0 degrees

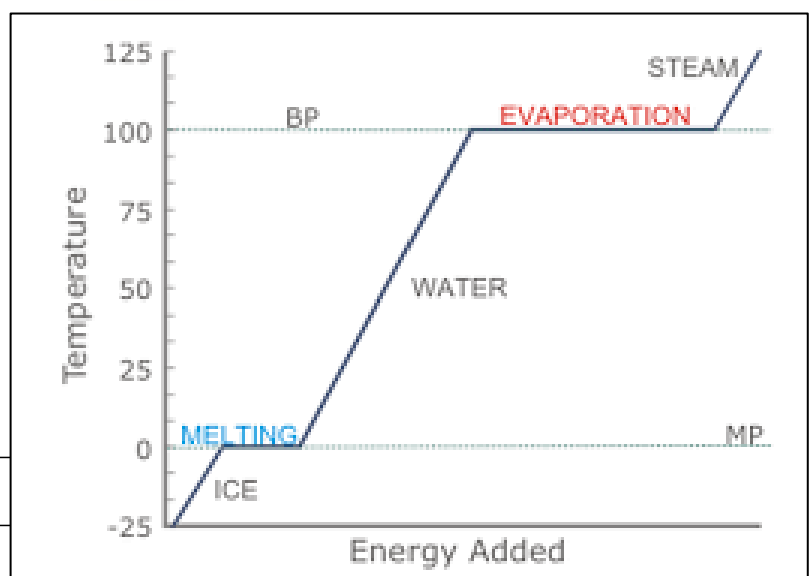
b- What happens to the temperature When it's melting?

The temperature stays the same.

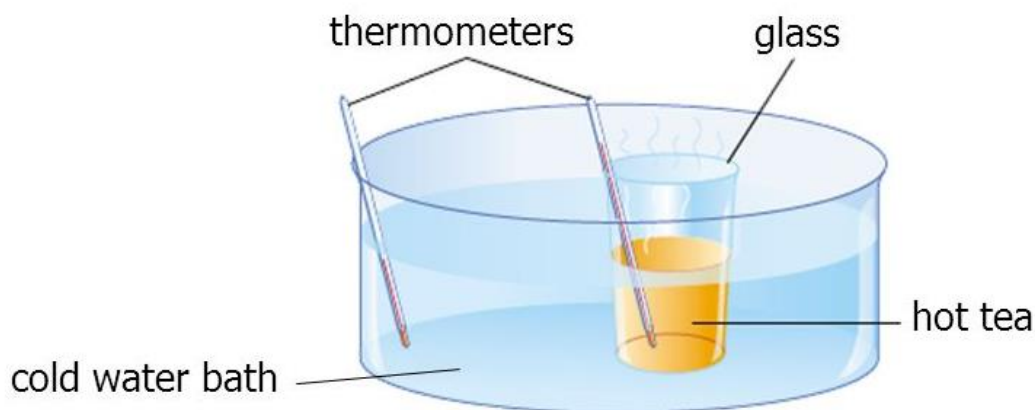
c- Why do you think temperature?

don't change during melting or evaporation? (Hint: where the energy is used)

Heat energy is absorbed to increase the potential energy between particles.



A glass of hot tea in a cold water bath:



	Source	Receiver
Hot/Cold	Hot	cold
After some time Energy (increases/decreases)	decreases	increases
Temperature after some time	will be the same	will be the same

- a- Heat will flow from hot to cold
 b- After some heat will stop flowing this state of matter is called equilibrium.

Q-4

8M

- a- Which graph is correct to show the relation between Change in temperature and mass?

B

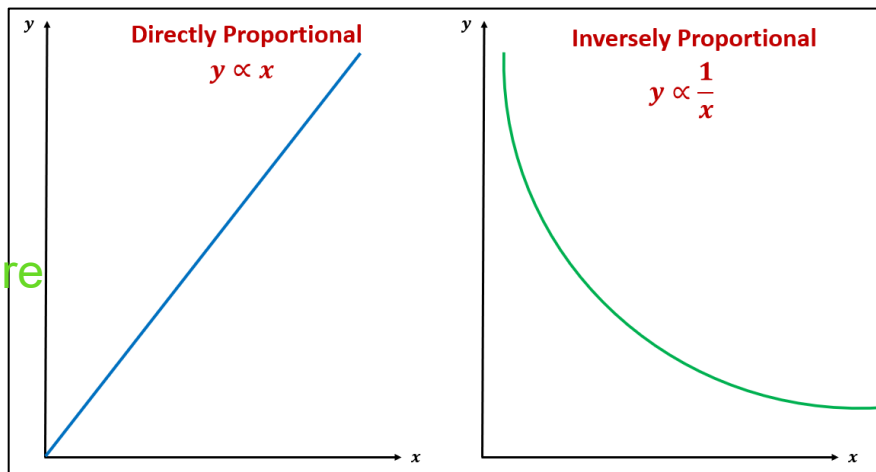
- b- What happens to change in temperature when mass of the substance increases.

The change in temperature decreases.

- c- What is this relation called?

Inversely proportional

- d- Less mass = less particles



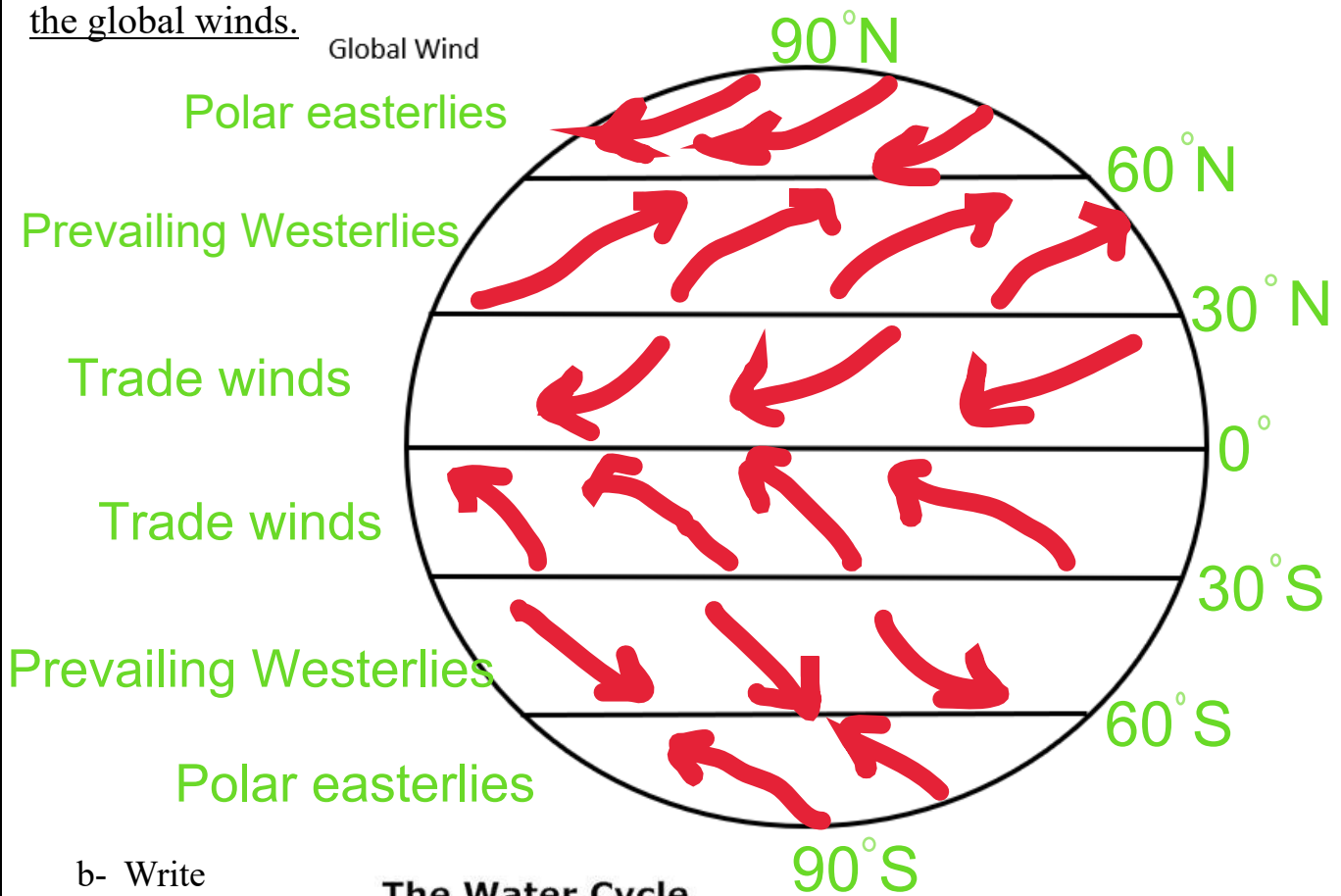
A

B

a- Label the given diagram with

4M

(Prevailing westerlies, Polar easterlies, Trade wind) and mark latitude and direction of the global winds.



b- Write

the name of the
processes involved.
in the water cycle.

