

New Amazing Science
7
Worksheet

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Worksheet # 1

Name: _____

Date: _____

Q1. Label the root and shoot system in the given diagram.



Q2. Draw two types of leaves showing leaf venation in the spaces provided below.

Worksheet # 2

Name: _____

Date: _____

Q1. Fill in the blanks.

- i. _____ is a process by which a plant loses water vapour through its leaves.
- ii. _____ are found on the _____ of the leaves through which the water escapes into the atmosphere.

Q2. Name the factors that affect transpiration.

Q3. What is the function of the nitrates, magnesium and phosphates?

Worksheet # 1

Name: _____

Date: _____

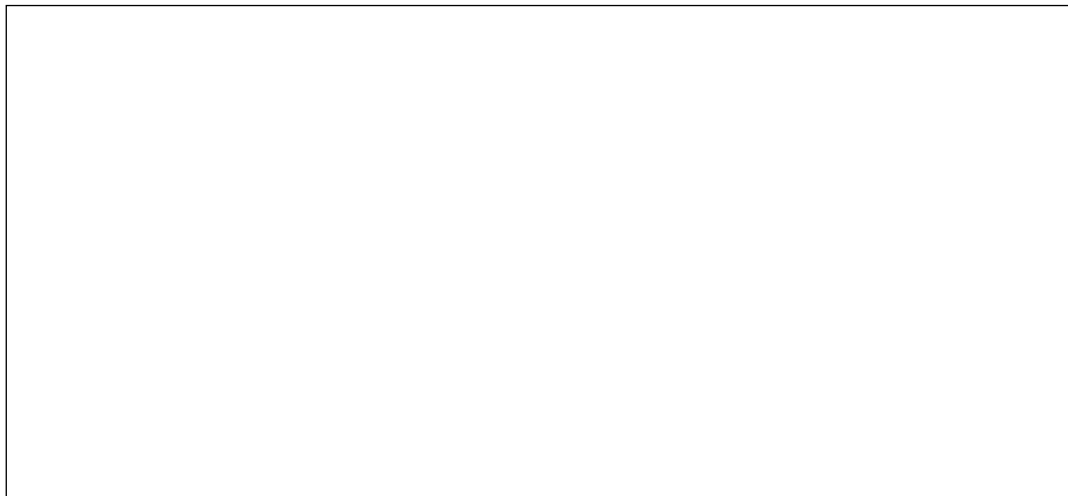
Q1. Define the following:

- Respiration

- Breathing

Q2. What is the difference between breathing and respiration?

Q3. Draw and label the human respiratory system.



Worksheet # 2

Name: _____

Date: _____

Q1. Fill in the blanks.

_____ happens in most of the living organisms. The _____ requires oxygen and involves the complete breakdown of food with the release of _____ stored in it. The _____ of glucose can be written as $\text{glucose} + \text{oxygen} \longrightarrow \text{carbon dioxide} + \text{water} + \text{energy}$.

Q2. Name three aerobic exercises.

Q3. Give the equation for anaerobic respiration both chemical and word.

Q4. Name any two respiratory diseases.

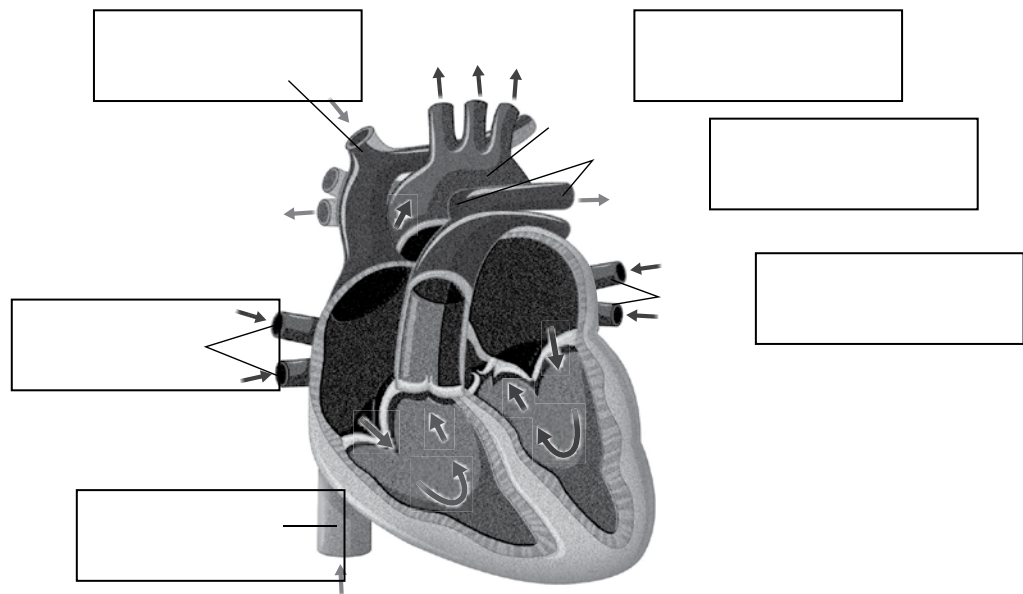
Q5. What can save us from getting a disease?

Worksheet # 1

Name: _____

Date: _____

Q1. Label the human heart.



Q2. Choose the correct answer by crossing the incorrect one.

- The formal name of transport system in human body is **circulatory system/ nervous system**.
- Blood vessels are special network of **neurons/capillaries, arteries and vessels**.
- Deoxygenated blood is **blue/ deep** red in colour

Worksheet # 2

Name: _____

Date: _____

Q1. Draw and label the double circulation system.

Q2. Answer the following questions.

- Name the type of circulation that takes place in fish.

- Name the transport system in humans.

- What kind of walking is good for your heart and why?

- What does bpm stand for?

- What factor determines our heart rate?

Worksheet # 1

Name: _____

Date: _____

Q1. Write the definition of the following terms:

a. Disease:

b. Germ:

c. Infectious:

d. Transmission:

Q2. State whether the following statements are True or False:

1. We must share our personal items with friends.
2. It is fine if a person infected with COVID 19 goes out to a market place.
3. We must dispose of used needles.
4. A typhoid victim's faeces are full of bacteria.
5. Dengue is spread by human contact.

Worksheet # 2

Name: _____

Date: _____

Q1. Answer the following questions :

- Define immunity.

- Name types of Immunity:

a. _____

b. _____

- What is the first line of defense?

- What is the second line of defense?

- Define what are white blood cells?

- Name the types of WBCs.

a. _____

b. _____

- What is the third line of defense?

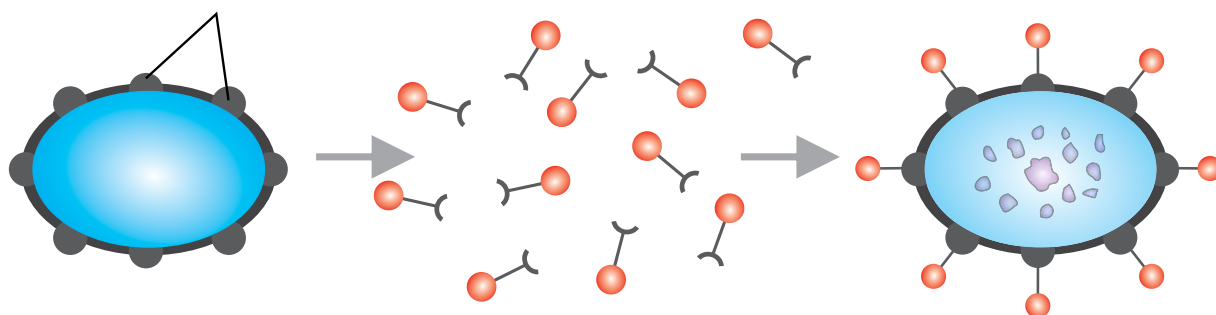
- Name the types of adaptive immunity.

a. _____

b. _____

c. _____

2. Label the following diagram.



Worksheet # 1

Name: _____

Date: _____

Q.1 Give one word answer.

1. *Though they differ in size, all atoms are considered this.*

2. *It is the central dense area of an atom.*

3. *The number of electrons and protons is always the same, but number of this particle can differ.*

4. *The atoms are electrically neutral as they do not have it.*

5. *Atomic number is number of this particle in nucleus.*

Q2. Draw a diagram to show structure of an atom and label it.

Worksheet # 2

Name: _____

Date: _____

Q1. *Fill in the blanks.*

- The rows in the Periodic table are called _____ .
- The outer most electrons are known as _____ .
- The atoms of Group 1 elements have _____ electrons.
- There are _____ columns(groups) in a Periodic table.

Q2. *Look at the Periodic table and answer.*

- An element in Group Zero with only 2 electrons is _____ .
- _____ is placed in Group 1 with only one electron.
- _____ are on the left of the Periodic table.
- Non-metals are on the _____ of the Periodic table.
- _____ means repeated at regular intervals.

Unit 6

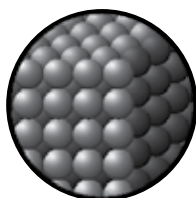
PHYSICAL AND CHEMICAL CHANGES

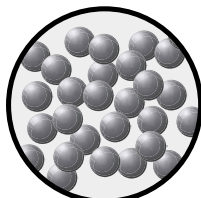
Worksheet # 1

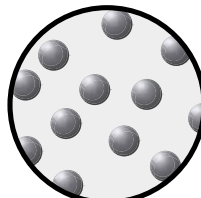
Name: _____

Date: _____

Q1. *Identify state of matter in the given images*







Q2. *Write a brief note on physical change.*

Worksheet # 2

Name: _____

Date: _____

Q1. *Mark as True or False*

Statement	True	False
Many chemical reactions give out energy		
Many chemical reactions absorb energy		
When a fizzing sound is produced it is a temporary change		
A colour change in a half-eaten apple is a physical change		
Unpleasant odours in food is a sign of food decay		

Q2. *Define chemical change*

Q3. *Complete the following.*

- _____ are responsible for some chemical changes.
- _____ consume the sugars in milk and cause the proteins to thicken, resulting in cheese.
- _____ is a chemical change that happens in the presence of oxygen, when natural gas is burning at gas stove.

Worksheet # 1

Name: _____

Date: _____

Q1. *Define:*

i. Noble Gases

ii. Valency

Q2. *Write valences of the following by looking at the Periodic Table.*

• H

• Li

• He

• C

• Mg

Worksheet # 2

Name: _____

Date: _____

Q1. Answer the given questions;

a. What are cations?

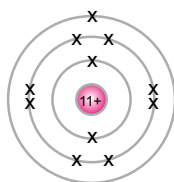
b. What are negative ions called?

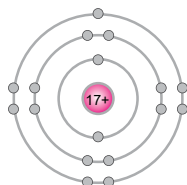
c. What keeps the ions sticking together?

d. What are the two ways chemical bonds form?

e. What force exists in ionic bonds?

Q2. The following elements have 11 and 17 electrons as shown in the diagram. Look at the diagram and give distribution of electrons.





Worksheet # 1

Name: _____

Date: _____

Q1. Define:

a. Solution:

b. Solvent

c. Solute

Q.2 Give examples of the following types of solutions.

- Gas-liquid solution

- Liquid-liquid solution

- Gas-gas solution

Worksheet # 2

Name: _____

Date: _____

Q1. *What is solubility?*

Q2. *Define insoluble.*

Q3. *Name the three factors that affect solubility.*

Q4. *Explain the role of solubility in home and industry.*

Unit 9

FORCE AND MOTION

Worksheet # 1

Name: _____

Date: _____

Q1. Define:

a. *Speed*

b. *Instantaneous Speed*

c. *Speed* = ----- / -----

d. *Time taken* = ----- / -----

e. *Distance traveled* = ----- $\times$ -----

Q2. Match the statements to facts:

Statements	Facts
Athletic races	16 m/s
Snail's travel speed	Photographs are taken at the finishing line
Roads have marker posts	Every 50 km only
Greyhounds	0.003 m/s

Worksheet # 2

Name: _____

Date: _____

Q1. Mark whether True or False.

Statement	True	False
Force is a push or pull		
Newton (N) is the SI unit of speed		
When forces being applied are balanced, the objects move faster		
Forces can change direction of motion		
When two materials rub against each other, friction is produced		

Q2. Define

- Contact Force

- Non-contact Force

- Gravity

Unit 10

WAVES AND ENERGY

Worksheet # 1

Name: _____

Date: _____

1. What are waves?

2. Define with examples.

a. Mechanical waves

b. Electromagnetic waves

3. Write three characteristics of waves.

- _____
- _____
- _____

Worksheet # 2

Name: _____

Date: _____

Q1. What is Transverse wave?

Q2. What are Longitudinal waves?

Q3. Give example of the following sounds.

a. High pitched sounds

b. Low pitched sounds

Worksheet # 1

Name: _____

Date: _____

Q1. Write whether the following objects are good conductors of heat or insulators.

- Iron _____
- Plastic cup _____
- Wooden spoon _____
- Steel fork _____
- Copper wire _____

Q2. Explain how clinical thermometer works.

Worksheet # 2

Name: _____

Date: _____

Q1. *What are three modes of heat transfer?*

Q2 *Mark whether true or false. If false write the correct statements.*

a. Heat is transferred from the sun through conduction.

b. Convection currents travel through a vacuum as electromagnetic waves

c. Hot air rises.

d. Convection is the transfer of heat from one part of a fluid to another by the circulatory movement of the heated fluid.

e. Concrete surfaces such as roads and paths contract when heated.

Worksheet # 1

Name: _____

Date: _____

Q Answer the given questions:

I. What is gravity?

2. What does gravitational field attract?

3. What is the strength/value of gravitational fields on objects near Earth?

4. What object in our solar system attracts all planets towards it?

5. a. Name the eight planets in our solar system in order.

b. What keeps them in their orbits?

6. Which planet is no more a part of our solar system? What group is it a part of?

Worksheet # 2

Name: _____

Date: _____

Q1. Look at the pictures and answer.

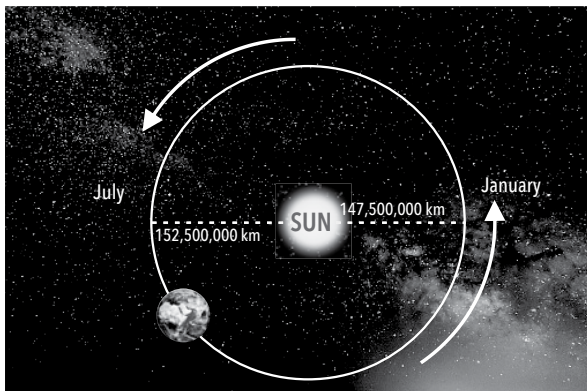


a.



b.

2. What does the given diagram indicate?



3. Define:

- Tides

- Constellations

4. Name any four constellations.

- _____
- _____
- _____
- _____