

New Amazing Science
6
Worksheet Answer Key

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Answer key Worksheet # 1

Name: _____

Date: _____

Q1.

1. Take a very thin slice of onion peel.
2. Put few drops of dye on the slide (methylene blue), for staining. This makes it easily visible.
3. A coverslip is placed on the top of the specimen to keep it in one place.
4. Slide is now ready for observation under microscope.

Q2.

a.	False
b.	True
c.	False
d.	True
e.	False

Answer key Worksheet # 2

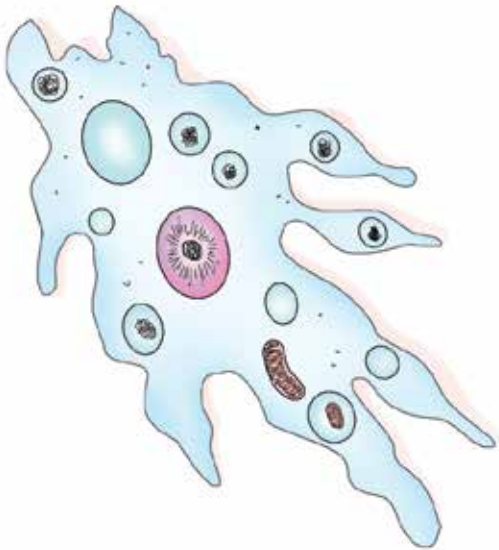
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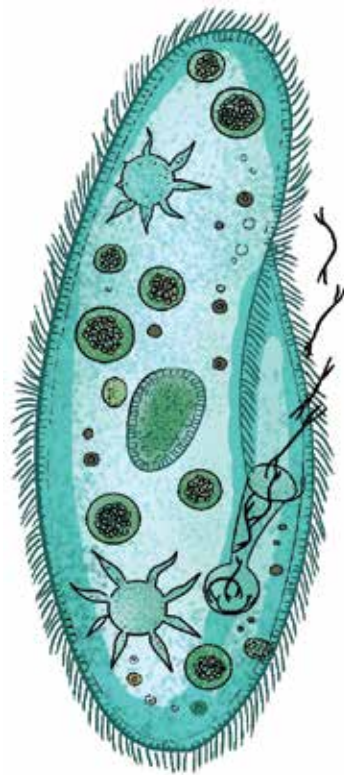
Q1. Draw the structures of the following specialised cell.

- Motor Nerve Cell
- Red Blood Cell
- Phloem
- Root hair Cell

Q2. Name the uni-cellular organisms shown below:



Amoeba



Paramecium

Answer key Worksheet # 3

Name: _____

Date: _____

Q1. CELL → TISSUE → ORGAN → ORGAN SYSTEM → ORGANISM

Q2. i.

- a. Skeletal System
- b. Digestive System
- c. Respiratory System
- d. Excretory System
- e. Circulatory System

ii. (Any two) For example

Respiratory System includes lungs, windpipe, and diaphragm. Lungs take in oxygen and transfer it to blood to be supplied to the whole body and then remove carbon dioxide from cells and exhale it out of the body.

Circulatory System Heart and blood vessels carry oxygen and nutrients to cells and waste material away from cells via blood.

Unit 2

REPRODUCTION IN PLANTS

Answer key Worksheet # 1

Name: _____

Date: _____

Q1.

1.	Reproduction
2.	asexual
3.	sexual
	genes
4.	sticky
	Style
5.	Pollination

Q2.

Dandelion	Take away
Acorn	Seed dispersal as parachute
Himalayan balsam	Winged seeds
Sycamore	Explodes
Blackberries	Juicy Fruits

Answer key Worksheet # 2

Name: _____

Date: _____

Q1. Fill the table below.

	Advantage	Disadvantage
Asexual Reproduction	Only one parent needed	Fertilisation is random so harmful variation may occur
Sexual Reproduction	Variation, so new features of organisms may allow adaptation to new environment	Two parents needed

Q2. Many plants reproduce from stems. Name the 4 types, and briefly write about it.

- i. Tubers: Are swollen underground stems which contain stored food. Green shoots grow from eyes or buds to form new plants.
- ii. Runners: Some plants have stems which grow horizontally over the soil. They have buds which grow into new plants.
- iii. Bulbs: They are modified stems wrapped in leaves. The buds grow from the stem to form new shoots.
- iv. Corm: They are short, thick, underground stem.

Answer-key Worksheet # 1

Name: _____

Date: _____

Q1. Look at the picture and the food types:



Protein



Carbohydrates



Vitamins and minerals



Fats and oil

Q2. Fill in the blanks.

1. Our bodies are 70% water.
2. Fats and Oils have 2.5 times more energy than carbohydrates.
3. Amino acids are basic building blocks of life.

Answer-key Worksheet # 2

Name: _____

Date: _____

Q1. Give examples of the following diet:

- a. Carbohydrates **roti, rice, bread**
- b. Vegetables and fruits **potato, spinach, apple, orange**
- c. Dairy, products meat and fish, **cheese, yoghurt, beef, mutton, salmon**
- d. Sweets, fats and oils **olive oil, mustard oil**

Q2. Write a brief note to explain why some foods are bad for your health.

Certain foods are considered bad for our health due to reasons such as poor nutritional profiles, high levels of added sugars, unhealthy fats, and potential adverse health effects. These foods may lack essential nutrients, be high in calories, contribute to weight gain, increase the risk of chronic diseases like diabetes and heart disease, and negatively impact dental health. Being mindful of these factors can help you make healthier food choices and maintain better overall health.

Answer key Worksheet # 1

Name: _____

Date: _____

Q1. Complete the following:

- a. **Saliva** begins the process the process of breaking down food and makes food moist so it is easier to swallow.
- b. The **small** intestine is where digestion continues so nutrients can be absorbed into the body.
- c. The **large** intestine absorbs water from undigested food and forms waste into faeces.
- d. Liver produces **bile** which helps the body absorb fats.

Q2. Name the different type of teeth with their functions:



Premolars



Canines



Molars



Incisors

Incisors: Used for cutting and biting food

Canines: Used for tearing food

Premolars: Used for crushing food

Molars: Used for grinding food

Answer key Worksheet # 2

Name: _____

Date: _____

1. List three ways to prevent constipation:

- Eating lots of fibre
- Regular exercise
- Drinking right amount of water

2. List two possible causes of diarrhea:

- Germs (bacteria, viruses)
- Irritable bowel syndrome

3. List three ways to avoid indigestion:

- Eat slowly
- Avoid fatty foods
- Do not overeat

4. What causes indigestion?

Indigestion can be caused if too much gastric juice is produced.

This can happen if a person does not eat food regularly or eats food too quickly.

5. What could be the result of indigestion?

Diarrhea is a result of indigestion.

6. What causes ulcers?

Ulcers are caused by production of too much acids and enzymes.

7. In severe cases what medicines are prescribed by the doctor?

Laxatives

Answer key Worksheet #1

Name: _____

Date: _____

Q1. Write the four main points in the particle model.

- All matter is made up of tiny particles.
- These particles are constantly moving.
- These particles have spaces between them.
- Adding heat to matter makes the particles move faster.

Q2. Complete the following.

- Solids** are completely incompressible.
- In **liquids** the particles have no fixed pattern and are close together.
- In **gas** there is no fixed pattern and the particles are far apart.
- When **heat** energy is absorbed or released **matter** can change from state to another.
- Melting** is the change of state from solid to liquid.

Worksheet #2

Name: _____

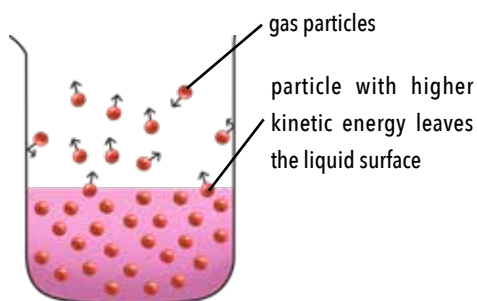
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Q1. Give any three evidences that support the kinetic theory.

Answer

- Particles are in constant motion in liquids and gases.
- There are spaces between particles.
- Gases are tiny molecules in mostly empty spaces.

Q2. Label the given diagram



Q3. When you smell freshly baked pizza, what phenomenon is behind this?

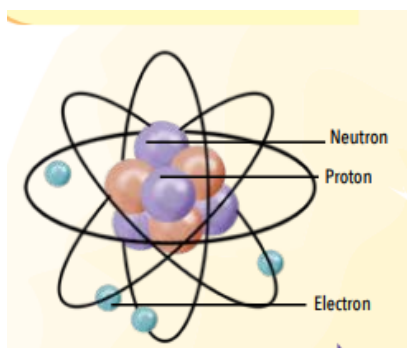
It is the phenomenon of diffusion.

Answer Key Worksheet #1

Name: _____

Date: _____

Q1. Label the given diagram.



Q2. Write the charges of given particles of an atom.

- Proton = positive
- Neutron = neutral
- Electron = negative

Q3. Complete:

1. The air around us is made up of **matter**
2. **Elements** are substances that are made up of one kind of atom.
3. The gas that we inhale is **Oxygen** which is an element.

Answer Key Worksheet #2

Name: _____

Date: _____

Q.1. Select from the given list and enter in the respective column.

Oxygen Carbohydrate Carbon Nitrogen Chlorine Sodium Chloride

Elements	Compounds
Oxygen	Carbohydrates
Carbon	Sodium Chloride
Nitrogen	
Chlorine	

Q2. Join the name of elements to the compound it is part of.

Elements	Compounds
Zinc (Zn) ,Chlorine(Cl)	Water (H ₂ O)
Hydrogen(H), Oxygen(O)	Zinc Chloride (ZnCl ₂)
Hydrogen(H), Chlorine (Cl)	Hydrochloric Acid (HCl)
Carbon(C), Oxygen(O)	Methane (CH ₄)
Carbon(C), Hydrogen(H)	Carbon dioxide (CO ₂)

Answer Key Worksheet #1

Name: _____

Date: _____

Q1. Complete the following.

- A pure substance is **matter when it has same composition and properties.**
- A mixture is formed **when several substances are mixed together but are not joined chemically.**
- Air is a mixture of **oxygen, nitrogen and several other gases.**
- Sea water is a **mixture.**

Q2. Mark whether True or False.

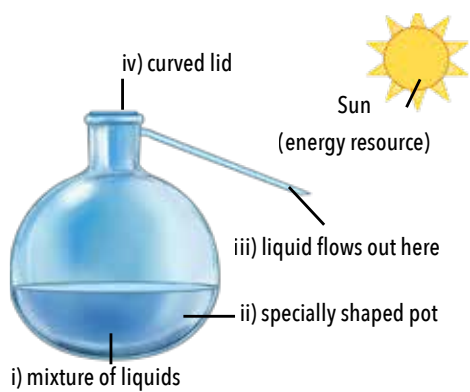
Statement	True/False
Compounds have no fixed composition	False
Mixtures contain two or more substances	True
Compounds have properties different than those elements who join together to form a compound	True
Common table salt dissolves quickly in water	True

Answer Key Worksheet #2

Name: _____

Date: _____

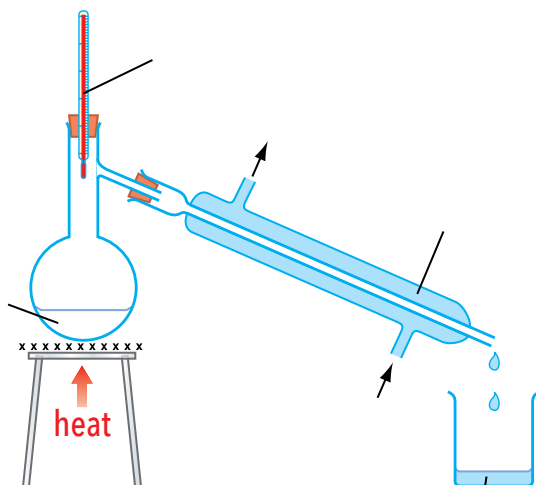
Q1. Identify the type of mixture separation shown in the diagrams below.



Alembic for Distillation



Filtration



Distillation

Q2.

i. What is sublimation?

When the solid directly changes to gaseous state due to heat.

ii. What is chromatography?

A method of dissolved chemical substances by their difference in speed across a sheet of paper.

Unit 8

ENERGY

Answer Key Worksheet #1

Name: _____

Date: _____

Q1. Answer the given questions.

a. What type of energy is more in fast moving objects?

Kinetic Energy

b. What is energy?

It is the ability to do work.

c. Where is electrical energy produced to run the train?

Power House

d. Which form of energy increases with height?

Gravitational Potential Energy

Q2. Look at the given pictures and identify the form of energy in each.

a.



a. **Electrical Energy**

b.



b. **Heat Energy → Mechanical Energy**

c.



c. **Sound Energy**

Answer Key Worksheet #2

Name: _____

Date: _____

Q. Find the hidden ten words in the puzzle (look in all directions).

S	O	L	A	R	E	K	T	H	O	M	E	E	N
L	C	E	Y	M	N	E	H	O	H	P	A	E	A
N	C	H	E	M	I	C	A	L	T	A	T	C	L
S	M	N	U	C	L	E	A	R	E	N	A	L	O
L	I	N	L	N	M	A	A	I	S	C	I	I	S
C	P	C	I	C	E	H	T	L	C	T	I	E	L
M	O	R	N	I	C	E	N	E	R	G	Y	I	S
N	T	N	C	T	H	A	L	E	M	S	N	A	L
C	E	M	C	E	A	T	C	I	T	S	A	L	E
H	N	T	C	N	N	I	I		P	M	I	N	L
N	T	S	A	I	I	I	E	R	A	E	A	D	P
R	I	E	E	K	C	I	I	A	O	E	L	N	T
O	A	T	L	E	A	I	E	A	C	N	I	I	E
N	L	M	Y	L	L	L	L	T	C	Y	L	W	I

Answer Key Worksheet # 1

Name: _____

Date: _____

Q1. Define

- **Static electricity**
The build up of electricity of positive and negative is called static electricity. These charges stay on the object.
- **Electrical Energy**
It is a type of energy, that is flow of electrons .
- **Electric Current**
The flow of electrons(electric charges) in one direction in a circuit is called electric current.
- **Conductors**
They are materials that allow electric charges to move through them easily.
- **Insulators**
The materials that do not allow electric charges to move through them, easily are known as insulators.

Q2. Mark the statements as True or False.

Statement	True/False
Static electricity is also known as natural electricity	True
Shining copper wires are bad conductors of heat	False
Plastics and rubbers are bad insulators	False
Battery is the energy source in the circuit	True

Answer key Worksheet # 2

Name: _____

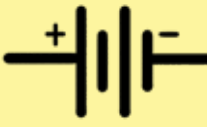
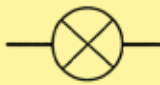
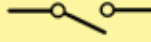
Date: _____

Q.1 Select from the given word list to fill in the blanks.

switch resistance wire open connected

1. The opposition to the flow of current is known as **resistance**.
2. A **switch** is used to open and close a circuit.
3. Electron charge cannot flow in an **open** circuit.
4. All the devices **connected** in a circuit receive current.
5. A **wire** is a conductor that receives current.

Q.2 Make the following circuit system.

Battery	Conductor (wire)	Light bulb	Switch
			

Answer Key Worksheet #1

Name: _____

Date: _____

Q1. Select the correct option and write:

a. The South and North sides of a bar magnet facing each other. Repel/Attract

Attract

b. The North pole of one bar magnet facing North pole of another bar magnet.

Repel/Attract

Repel

c. The South pole of a bar magnet facing South pole of another bar magnet. Repel/Attract

Repel

Q2. Name the given magnets based on their shape.

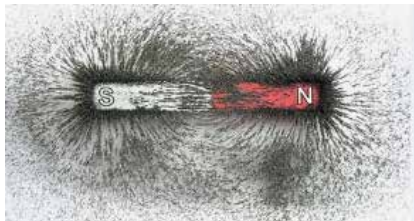


Horseshoe magnet



Bar magnet

Q.3 Draw a diagram to show what happens when iron fillings are sprinkled on a magnetic bar.



Answer Key Worksheet #2

Name: _____

Date: _____

Q1. Fill in the blanks.

- a. A **magnetic field** is created when electricity flows through an electric wire.
- b. **Compass** is used for navigation since ancient times.
- c. When a wire behaves like a magnet and attracts same type of material as iron does, it is known as **solenoid**.
- d. **Electromagnets** are useful as they can be turned on/off.
- e. They are used to store **data** in **computers** and MRI (**Magnetic Resonance imager**) .
- f. **Scanning** equipment which are used to examine inside of a patient's body.

Q2. Name any three objects which are run by electromagnets.

- **Electric Motors**
- **Mangle Car**
- **Earphones**

Unit 11

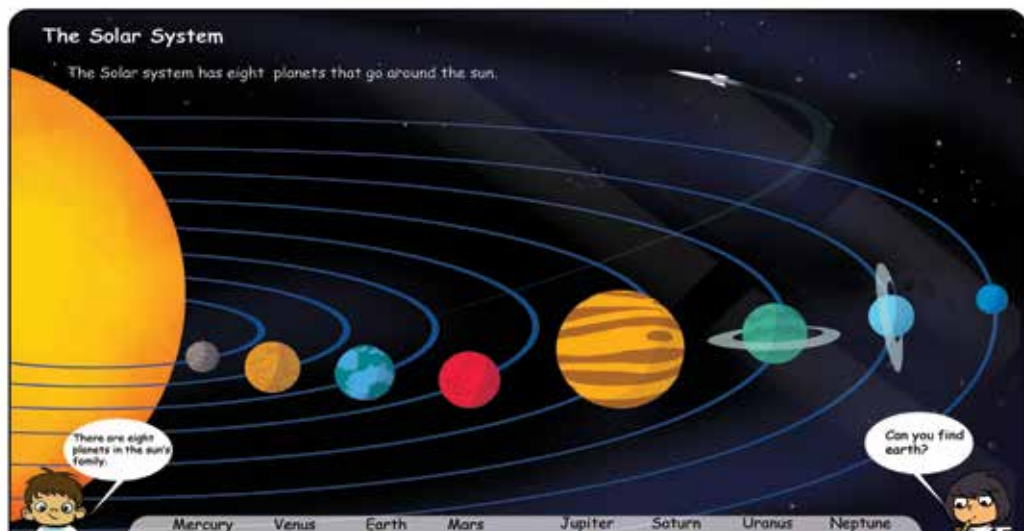
SOLAR SYSTEM

Answer key Worksheet 1

Name: _____

Date: _____

Q1. Draw and label the solar system.



Q2. Complete the following :

- i. The inner planets are namely *Mercury, Venus, Earth* and *Mars*.
- ii. The outer planets are namely *Jupiter, Saturn, Uranus and Neptune*.
- iii. *Jupiter* is the largest planet in our solar system.
- iv. Life is only possible on *Earth* due to *presence* of oxygen.
- v. Pluto is a *dwarf* planet.

Answer Key Worksheet 2

Name: _____

Date: _____

Q. Identify the following pictures.



comet



satellite



meteorite

Q2. Complete the following:

- GPS means Global Positioning System.
- A meteorite is made up of **rock or iron**.
- Comets orbit around the **Sun**.
- Our cars have **GPS** devices, which are for tracking
- Comet Shoemaker Levy 9 crashed into **Jupiter** in 1994, breaking down into 20 fragments.
- Meteors have long tails made up of gases when passing close to the Sun in their orbits.

ANSWER KEY WORKSHEET 1

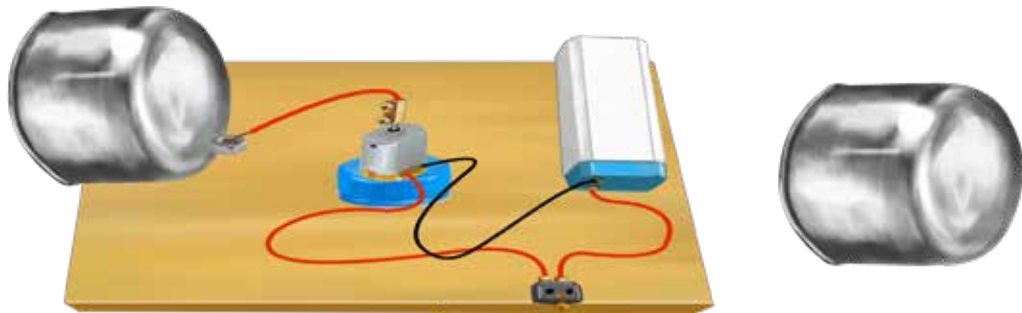
Name: _____

Date: _____

Q1. Tick whether True or False.

Statement	True	False
Probiotics are harmful for us.		✓
In order to make food like yoghurt, instructions must be followed.	✓	
Lactose is present in milk.	✓	
Earthen pots are not good for plant growth.		✓
Solar oven work by electric energy.		✓

Q2. Draw a diagram of an electric bell.



ANSWER KEY WORKSHEET 2

Q1. Fill in the blank.

1. **Stay** healthy and stay **safe**.
2. **Homemade** foods are healthier.
3. Buying yoghurt from market in **plastic** cups and bags is harmful.
4. Banana peels and egg shells can be used at home to make **natural fertilisers**.

Q2. Match the following to its correct answer.

Technology has made our lives		Oven
Baking requires the use of		Easier
Great meals can be cooked using		Electric bell
We can conveniently make this at home		Solar oven