

New Amazing Science
8
Worksheet

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Worksheet # 1

Name: _____

Date: _____

Q1. Define the following:

- Individual

- Population

- Community

- Ecosystem

Q2. Name the following using the hints given:

- Plant needs these to survive

- Animals need these to survive

Q3. Match the following

Tiger

Prey

Deer

Predator

Grass

Producer

Frog

Living together

Symbiosis

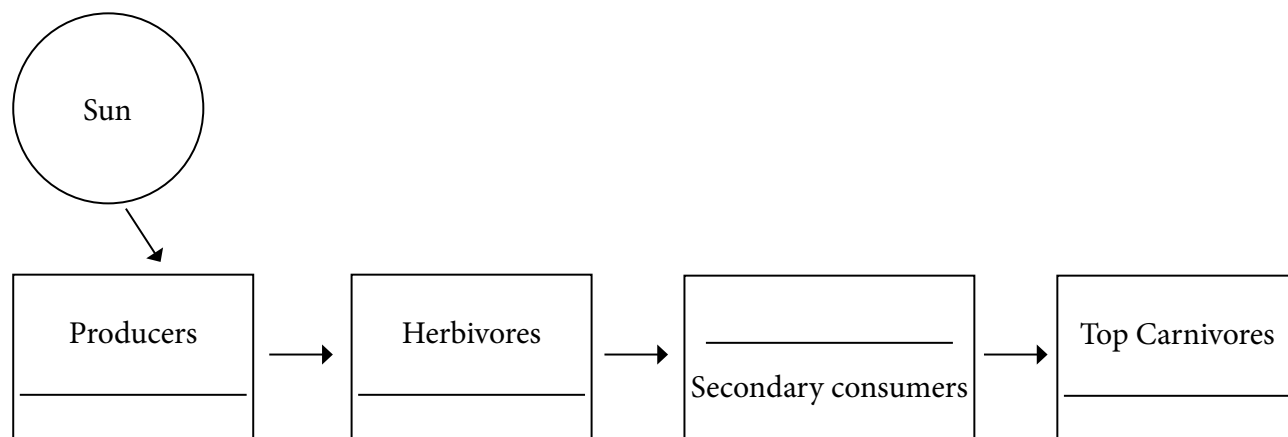
Consumer

Worksheet # 2

Name: _____

Date: _____

Q1. Complete the flow charts.



Q2. Write a short note on pollution.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Worksheet # 1

Name: _____

Date: _____

Q1. Label the parts of the human brain in the given diagram.



Q2. Draw the table below and write the differences between voluntary actions and involuntary actions.

Worksheet # 2

Name: _____

Date: _____

Q1. Draw and label a reflex arc.

Q2. Give one-word answers:

- a. It's a bundle of nerves that runs along the back inside the spine.

- b. This should be worn by motorcyclists for safety.

- c. This allows the brain and spinal cord to receive and send information to other areas of the body.

- d. A stimulus is received by a sense organ called the _____.

- e. A tiny gap where the nerve fibre of one neuron meets the cell body of another.

Unit 3

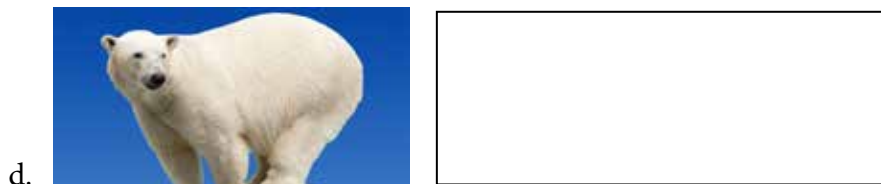
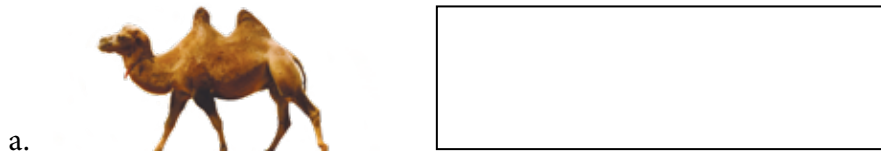
VARIATION, HEREDITY AND CELL DIVISION

Worksheet #1

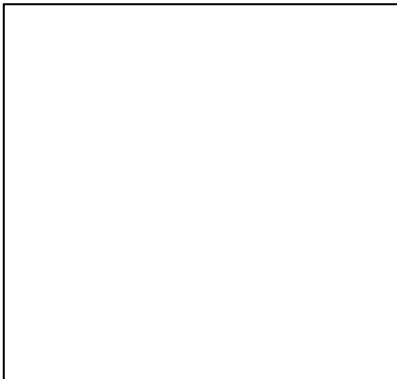
Name: _____

Date: _____

Q1. Identify the animal. Give one distinct feature that either shows adaptation, variation or camouflage.



Q2. Draw a cactus plant and write a short note on it.



Worksheet # 2

Name: _____

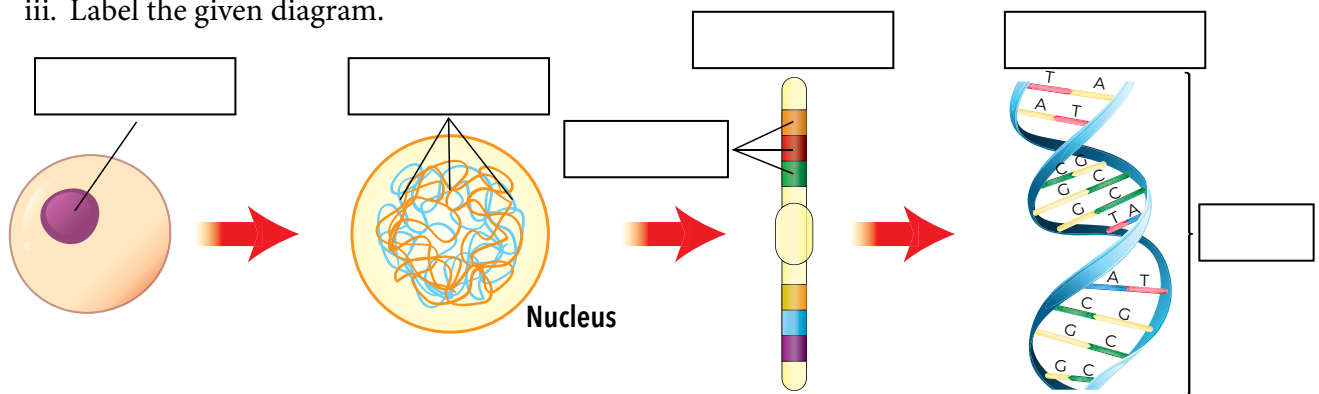
Date: _____

Q1.

i. Define Genetics.

ii. Draw a diagram to show the structure of chromosomes.

iii. Label the given diagram.



Q2. Mark whether True or False and if false write the correct statement:

a. DNA is found in cell membrane of a cell. ()

b. The number of chromosomes in a butterfly cell is 46. ()

c. Human cell has 380 chromosomes in the nucleus. ()

d. The life of a moth begins as multicellular body. ()

e. The new nuclear membrane forms before the cell divides out. ()

Worksheet # 1

Name: _____

Date: _____

Q1. Write a comprehensive note on 'Biotechnology'.

Q2. Complete the following:

- a. _____ milk is heated at a very high temperature that kills the bacteria and makes the milk safe for human _____.
- b. _____ advise consumption of _____ as it is a probiotic thus good for health.
- c. _____ help to restore bacteria which are good for health in the gut which are killed by _____.
- d. _____ milk is commonly used to make yoghurt.

Worksheet # 2

Name: _____

Date: _____

Q1. Name three crops, which have more nutritional value and better yield due to genetic engineering.

Q2. How did the health sector benefit from genetic engineering? Using an example, explain your answer.

Q3. How did Pakistan progress in the textile sector, due to biotechnology? Briefly highlight.

Worksheet # 1

Name: _____

Date: _____

Q1. Fill in the blanks with the correct option:

- i. Different substances occur on Earth in _____ (millions/ billions).
- ii. Periodic means repeated at _____ (regular/irregular) intervals.
- iii. A scientist named _____ (Mendeleev/ Mendel) arranged the elements in groups.
- iv. The number of elements that exist naturally in nature is _____ (82/92).
- v. The vertical columns in periodic table are known as _____ (periods/groups).

Q2. Define:

Periodic table.

Groups.

Periods.

Worksheet # 2

Name: _____

Date: _____

Q1. Name the three parts periodic table is divided into, based on some properties.

-
-
-

Q2. i. Complete.

- Group I-III are _____ (except Boron). Their atoms form positive ions by losing electrons.
- Group IV and V have _____.
- Group VI and VII are mainly _____. The atoms of group VI and VII form negative ions by gaining electrons.

ii. Following is group IV. Label them based on their metallic and non-metallic properties.

C	Carbon
Si	Silicon
Ge	Germanium
Bn	Tin
Pb	Lead

Worksheet # 1

Name: _____

Date: _____

Q1. Complete the following statements.

- i. Chemical reactions transfer _____.
- ii. The bread mold is an example of _____.
- iii. _____ of iron is a chemical reaction.
- iv. _____ is a reactive metal that explodes on contact with water.
- v. Some chemical reactions are _____.

Q2. Define law of 'Conservation of mass'.

Worksheet # 2

Name: _____

Date: _____

Q1 a. When does a chemical reaction take place?

b. What are the two type of reactions due to changes in energy?

Q2. Make a list to show classification of chemical reactions into different types.

Q3. Name the types of bonds.

Worksheet # 1

Name: _____

Date: _____

Q1. i. Write properties of acids.

ii. Give an example for each, acid, base and salt .

Q2. Mark whether True or False.

1. Acid turns blue litmus paper red. (True/False)
2. Alkalis turn blue litmus paper red. (True/False)
3. When an acid reacts with a base in a chemical reaction, the products are salt and water. (True/False).

Q3. Identify the given symbols.





Worksheet # 2

Name: _____

Date: _____

Q1. Define:

a. Indicators

b. Dyes

c. pH scale

Q2. What is universal indicator? Briefly explain.

Q3. Describe neutralisation reaction.

Unit 8

FORCES AND MOTION

Worksheet # 1

Name: _____

Date: _____

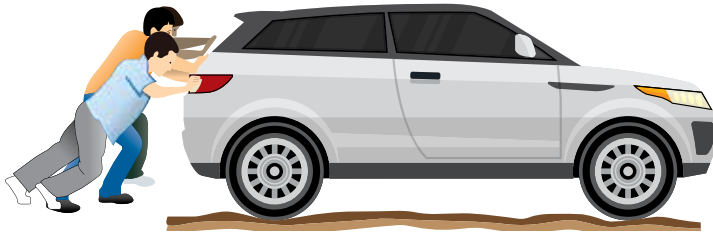
Q1. Give one word answer:

- i. They stretch and squash, pull and push, twist and bend, speed things up and slow things down.

- ii. A paper clip can be moved by a force exerted by it.

- iii. When a car is pushed its opposite force is produced.

Q2. Label the two forces in the car which balance each other.



Look at the image and elaborate what keeps the object afloat.



Worksheet # 2

Name: _____

Date: _____

Q1. Give definition of pressure and air pressure.

Q2. Define fluids and give some examples:

Q3. Name the pressure that you think exists under water. What do driver must wear under water as shown in the image below?



Unit 9

REFLECTION AND REFRACTION OF LIGHT

Worksheet # 1

Name: _____

Date: _____

Q1. Fill in the blanks:

- The speed of light in a vacuum is _____.
- Sunlight reaches the Earth in _____ minutes.
- _____ is the most vital source of life on Earth, due to sunlight.
- The _____ objects give out light.

Q2. Write four characteristics of image formed by a mirror.

Worksheet # 2

Name: _____

Date: _____

Q1. Write the use of the following instruments:

- **Periscope**

- **Kaleidoscope**

Q2. Answer the following:

- a. What are light rays?

- b. What happens when a ray of light falls on a surface?

Q3. Draw a diagram to show reflection of light.

Worksheet # 1

Name: _____

Date: _____

Q1. Describe electricity circuits.

Q2. Define:

- Current
- Ammeter
- Voltage

Q3. Join the power ratings of electrical appliances:

Iron	400 W
Drill	1100 W
Lamp	11 W
LED Tv	2.4 KW
Blender	80 W

Worksheet # 2

Name: _____

Date: _____

Q1. Make a list of five hazards:

Q2. Draw and label a diagram to show magnetic effect of current:

Worksheet # 1

Name: _____

Date: _____

Q1. Complete the following statements:

- a. A ball of burning gas in space visible as point of light in the sky is called as _____.
- b. _____ are area in space that even light cannot escape from because gravity is strong their.
- c. A giant star called _____ has shrunken so much that it looks smaller than the Earth.
- d. The pattern of stars that we see in the sky are known as _____.
- e. After four billion years our sun will become a _____.

Q2. Draw a diagram and label it to show death of our sun.

Worksheet # 2

Name: _____

Date: _____

Q1. Name the three types of galaxies.

Q2. Why is space exploration by scientists important?

Q3. How can we see the constellations which are very far from Earth?

Q3. Look at the image below and answer



- a. What is this object?
- b. What is a telescope?
- c. When was this telescope launched?