



District Public School & College Depalpur

Subject Science

E – Learning Project

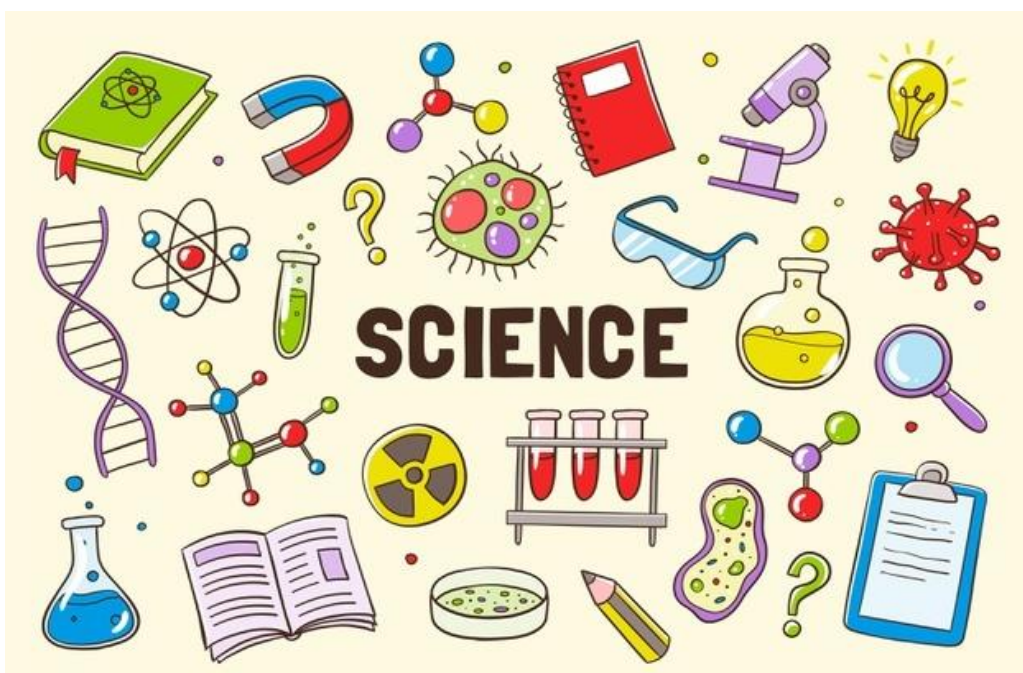
Summer Task with Tutorial Links, Home Assignments, Work sheets and Activities

(Academic Session 2020-21)

Class: Four

Student's Name: _____

Father's Name: _____



UNIT 2 The Animal World

Table of Contents:

Sr. no.	Topics	Objectives
1.	Essentials of survival (water)	To identify the factors that are essential for animal's survival.
2.	Essentials of survival (Energy)	To explain the importance of energy for animal survival.
3.	Essentials of survival (Energy transferring through food)	To explain how energy is transferred from the Sun to the tertiary consumers through the food chain.
4.	Essentials of survival (Oxygen)	To explain the importance of oxygen for the animal survival.
5.	Adaptation	To explain the part adaptation plays in animal survival.
6.	Movement	To explain how movement help to survive.
7.	Reproduction	To explain how reproduction takes place in different types of animals.

Date: 06th July, 2020

Day: Monday

UNIT 2 THE ANIMAL WORLD

Topic: Essentials of survival (water) Book page: 12

Objectives: Students should be able to identify the factors that are essential for animal survival.

Tutor's web link: <https://www.youtube.com/watch?v=UtkuXW3f4NI>

Understanding about essentials of survival (water)

- All animals need three essential things to survive.
- These are: 1) Water 2)energy 3) oxygen

Water:

- Water is the most precious things on Earth.
- There would be no life on Earth. The presence of water is the main reason that life exist on Earth.
- No large quantities of water have been detected on any other planet that's why no life exists on them.
- Animal can survive longer without food than without water.

Why water is needed?

- All living things are mainly made up of water. If water is lost from your body, it needs to be replaced.
- Water helps move food and chemicals around your body.
- Water helps to cool or heat your body as the temperature around you changes.

Composition of water:

- Water is made is made up of two chemicals, hydrogen (H) and oxygen (O).
- The chemical name for water is H₂O, which stands for two units of hydrogen and one unit is oxygen.



Date: 07th July, 2020

Day: Tuesday

Assignment

Tutor's web link: <https://www.youtube.com/watch?v=AHWD7h3Uv9U>

Question 1 Answer the following questions.

- Why life is not exists on other planets?

Answer: Because there are no large quantities of water have been detected on any other planet.

Answer: _____

- What is the chemical name for water?

Answer: The chemical name for water is H₂O.

Answer: _____

- How many oxygen units present in water?

Answer: There is only one oxygen unit in water.

Answer: _____

Question 2 Encircle the best option.

- Water is made up of _____ chemicals.

a) 1 b) 2 c) 3 d) 4

- Water helps to _____ and _____ your body.

a) Cool b) heat c) change d) both a & b

Question 3 Fill in the blanks.

- Animals survive longer without _____.

- Water helps to move food and _____ around your body.

Date: 08th July, 2020

Day:

Wednesday

UNIT 2 THE ANIMAL WORLD

Topic: Essentials of survival (Energy)

Book page: 14

Objectives: To explain the importance of energy for animal survival.

Tutor's web link: <https://www.youtube.com/watch?v=AHWD7h3Uv9U>

Understanding about energy:

- Animals need energy so they can do all the things that they do.
- Energy comes from sun, but not directly used by animals.
- Energy passed from one living thing to another through food.
- **What is the importance of energy?**
- Birds need energy to fly.
- Baby animals need energy to grow.
- Energy helps repair damage to the body.
- You need energy so that you can run, jump, and singing, and dance, and learn.



Date: 09th July, 2020

Day: Thursday

Assignment

Tutor's web link: <https://www.youtube.com/watch?v=IBXtaumTCo8>

Question 1 Answer the following questions.

- Why animals need energy?

Answer: Animals need energy so they can do all the things that they do.

Answer: _____

- Where does all energy come from?

Answer: All energy comes from the Sun.

Answer: _____

Question 2 Fill in the blanks.

- Direct sunlight does not give _____ that we need.
- Energy helps _____ damaged part of the body.

Question 3 Encircle the best option.

- Energy is used for _____.
a) Dancing b) running c) jumping d) all
- Baby animal need energy to _____.
a) Grow b) sleep c) sing d) dance
- Energy is passed from one living thing to another through _____.
a) Electricity b) chain c) food d) jumping

Activity: write down any three uses of energy.

- Birds use energy to fly.
- Animals use energy to grow.
- Animals use energy to run.

Answer: _____

Date: 10th July, 2020

Day: Friday

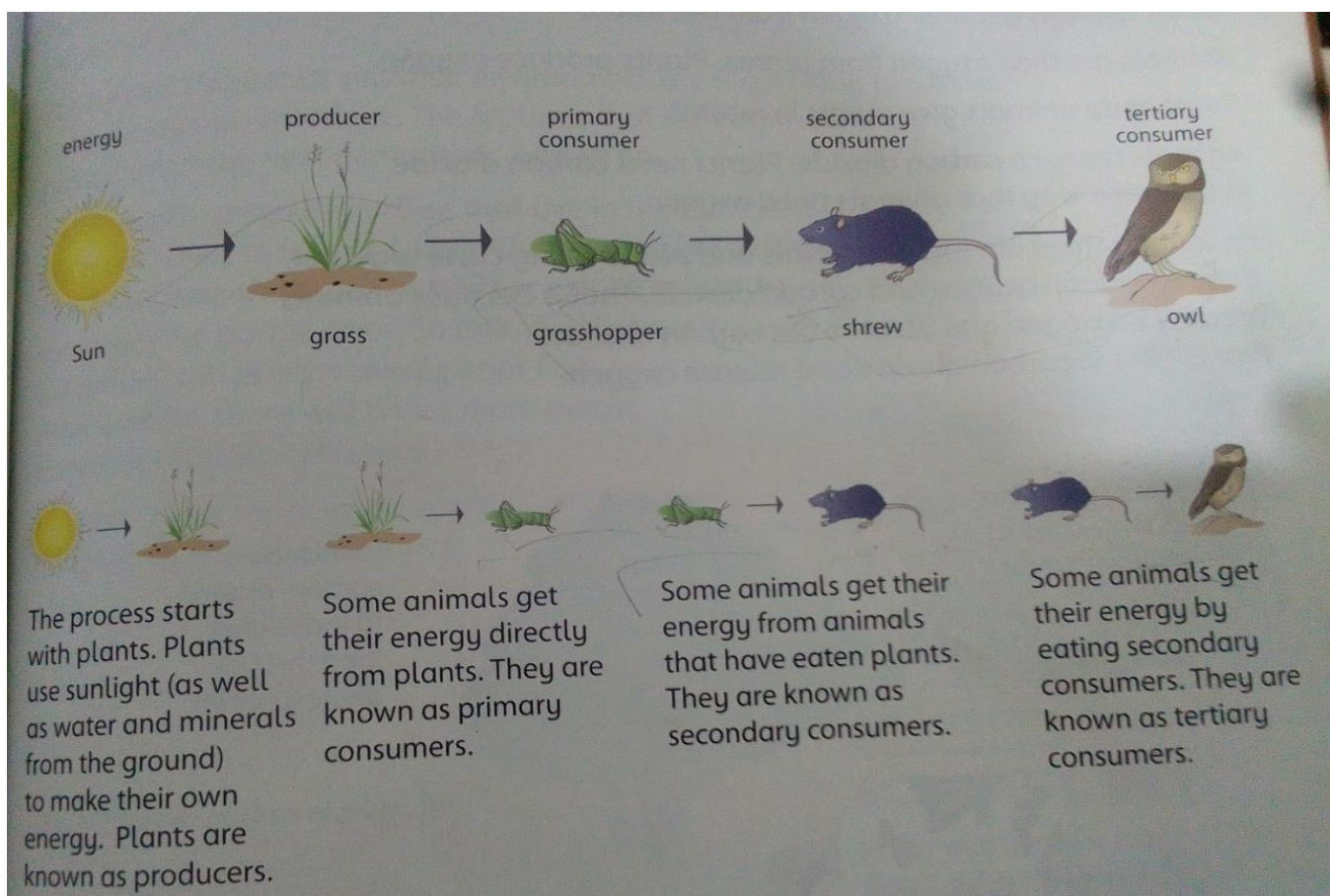
UNIT 2 THE ANIMAL WORLD

Topic: Essentials of survival (Energy transferring through food) Book page: 15

Objectives: To explain how energy is transferred from the Sun to the tertiary consumers through the food chain.

Tutor's web link: <https://www.youtube.com/watch?v=Elw63oXEVpQ>

Understanding about how energy is transferred through food:



- Carnivores are animals that eat only meat.
- Herbivores are animals that only eat plants.
- Omnivores are animals that eat both plants and animals.

Date: 11th July, 2020

Day: Saturday

Assignment

Tutor's web link: <https://www.youtube.com/watch?v=IIMtp-mX9wY>

Question 1 Answer the following questions.

- Define primary consumer.

Answer: some animals get their energy directly from plants are called primary consumer.

Answer: _____

- Define omnivores.

Answer: Omnivores are animals that eat both plants and animals.

Answer: _____

Question 2 Encircle the best option.

- Animals that get energy from animals that eat plants are known as:
a) Producer b) primary consumer c) secondary consumer d) tertiary consumer
- Food chain always starts from _____.
a) Producer b) primary consumer c) secondary consumer d) tertiary consumer

Question 3

Here is an illustration of a food chain from producer to tertiary consumer.
Add the correct label for each animal.

secondary consumer producer tertiary consumer primary consumer

Date: 13th July, 2020

Day: Monday

UNIT 2 THE ANIMAL WORLD

Topic: Essentials of survival (Oxygen)

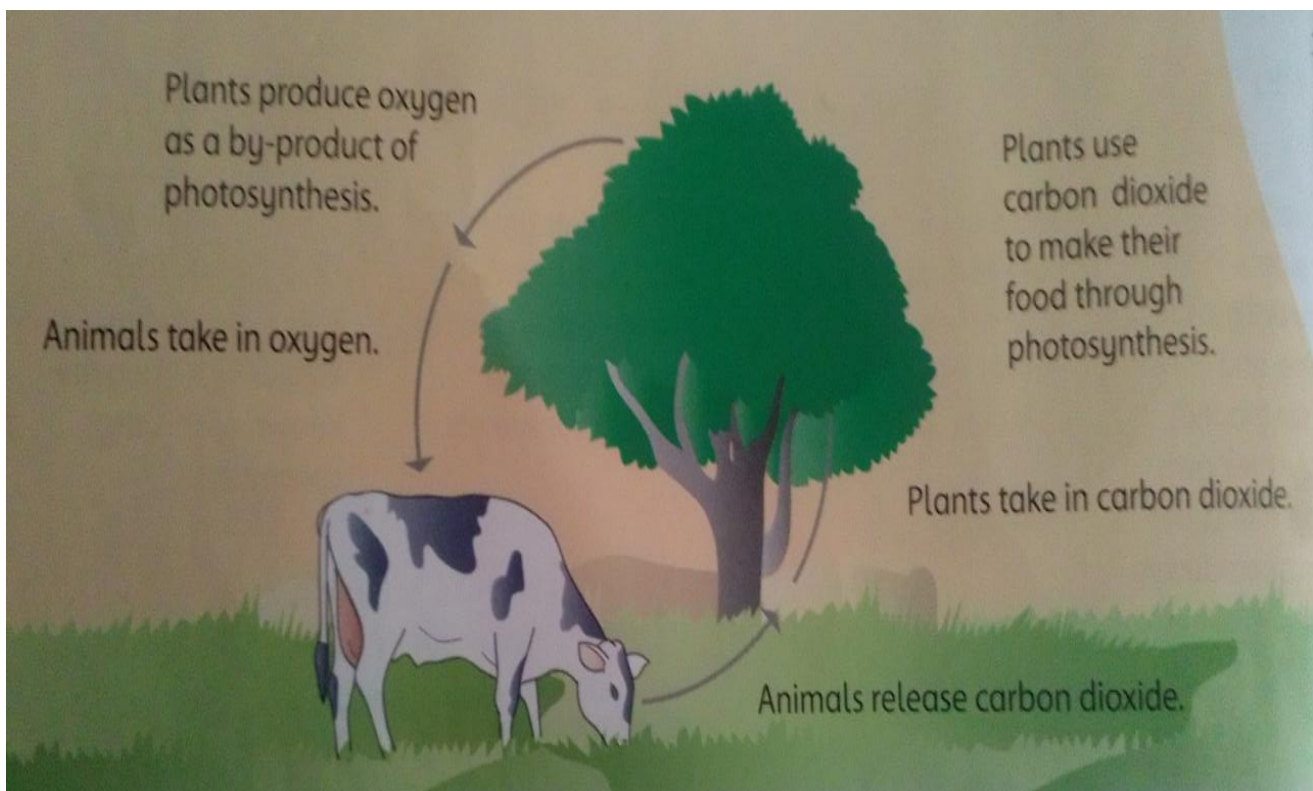
Book page: 16

Objectives: To explain the importance of oxygen for the animal survival.

Tutor's web link: https://www.youtube.com/watch?v=L_d0aUu6mWs

Understanding about importance of oxygen for the survival of animals

- Oxygen is a chemical.
- All animals need oxygen to survive. Land animals get their oxygen from air while water animals get their oxygen from water.
- Animals get their oxygen from plants.
- Animals produce carbon dioxide and plants need carbon dioxide for photosynthesis.
- Plants produce oxygen that animals used.
- Animals breathe in oxygen and breathe out carbon dioxide. Plants take in carbon dioxide and release oxygen.



Date: 14th July, 2020

Day: Tuesday

Assignment

Tutor's web link: <https://www.youtube.com/watch?v=rfPvP2Tgu3Q>

Question 1 Answer the following questions.

- Where do land animals get their oxygen?

Answer: Land animals get their oxygen from air.

Answer: _____

- Which gas plants produce and animals used?

Answer: Oxygen gas is the gas that plants produces and animals used.

Answer: _____

- Can animals live without oxygen?

Answer: No animals cannot live without oxygen.

Answer: _____

Question 2 Encircle the best option.

- Plants use _____ to make their food.
a) Oxygen b) carbon dioxide c) nitrogen d) argon
- Water animals get their oxygen from _____.
a) Land b) air c) water d) atmosphere

Question 3 Fill in the blanks.

- Plants take in _____ and release _____.
- Oxygen is a _____.
- Animals release _____.

Date: 15th July, 2020

Day: Wednesday

UNIT 2 THE ANIMAL WORLD

Topic: Adaptation Book page: 17

Objectives: To explain the part adaptation plays in animal survival.

Tutor's web link: <https://www.youtube.com/watch?v=8e7GyaQSk7A>

Understanding about adaptation

Definition:

- The process in which animals adapt themselves to survive in environment.
- Living things are always changing to give themselves the best chance to survival.
- The animal best suit their environments are most likely to survive long enough to reproduce.
- The features that kept them alive are passed on to the next generation.
- Green butterflies that live in rainforest are more likely to survive longer than purple butterflies.
- This is because green butterflies harder to spot than the purple one. So, the animals that eat butterflies first eat the purple one and green one survive
- Polar bear live in a very cold climate, so they have thick fur to keep them warm.
- The arctic fox grows a different colored coat depending on which season is approaching.
- This helps them blend into their environment.



Polar bear



Arctic fox

Date: 16th July, 2020

Day: Thursday

Assignment

Tutor's web link: https://www.youtube.com/watch?v=3X_OybKHUQk

Question 1 Answer the following questions.

- Why animals adapt themselves?

Answer: Animals adapt to get the best chance of survival.

Answer: _____

- What is the importance of adaptation?

Answer: Adaptation helps animals to blend into their environment so they can't be seen easily by predators.

Answer: _____

Question 2 Encircle the best option.

- Polar bear have _____ to live in cold climate.
a) White fur b) thin fur c) thick fur d) black fur
- _____ butterflies live in rainforest.
a) Blue b) green c) purple d) white

Question 3 Match the columns.

ii. Living things adapt to suit their environment. Below are six environments and six living things. Which living thing suits which environment? Connect them by drawing lines.

mountain environment

underground environment

rainforest environment

arctic environment

desert environment

river environment

Date: 17th July, 2020

Day: Friday

UNIT 2 THE ANIMAL WORLD

Topic: Movement Book page: 18-19

Objectives: To explain how movement help to survive.

Tutor's web link: <https://www.youtube.com/watch?v=JQ7hFjH3as>

Understanding about movement

- Movement is essential part of animal life.
- **Why animals move from one place to another?**
- Animals move for several reasons 1. to find food 2. To find 3. to find water 4. To escape from predators
- When your brain realizes you are hungry, it sends messages around your body.
- Your eyes look for food and your arm reaches out to pick it up.
- When your body brain realizes you are in trouble, it can send messages around your body.



Date:18th July, 2020

Day: Saturday

Assignment

Tutor's web link: https://www.youtube.com/watch?v=3_RHsv45e3c

Question 1 Answer the following questions.

- Why animals move?

Answer: Animals move 1. To find food 2. To find shelter 3. To find water 4. To escape from predators.

Answer: _____

- When your brain realizes you are hungry what do you do?

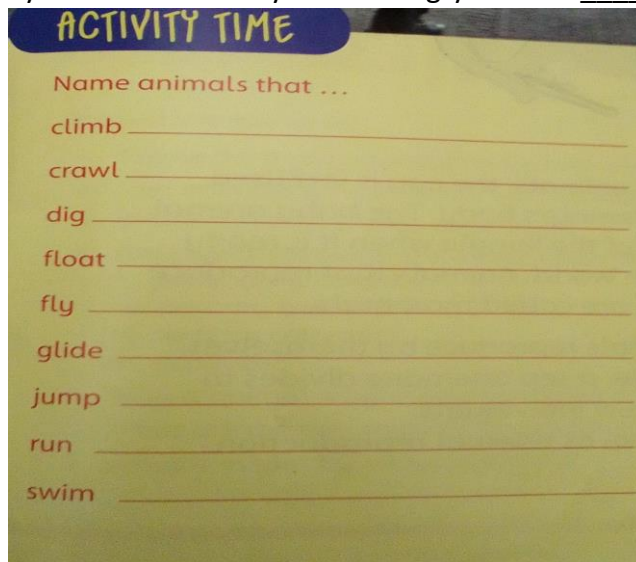
Answer: when our brain realizes we are hungry, it sends messages around the body. Our eyes look for food and our arm reaches out to pick it up.

Answer: _____

Question 2 Fill in the blanks.

- Animal bodies are design for _____.
- When your brain realizes you are hungry it sends _____ around your body.

Activity:



Date: 20th July, 2020

Day: Monday

UNIT 2 THE ANIMAL WORLD

Topic: Reproduction Book page: 20-21

Objectives: To explain how reproduction takes place in different types of animals.

Tutor's web link: <https://www.youtube.com/watch?v=CFdZjmTG6HY>

Understanding about reproduction

Definition:

- Reproduction is the process by which living things produce new living things.

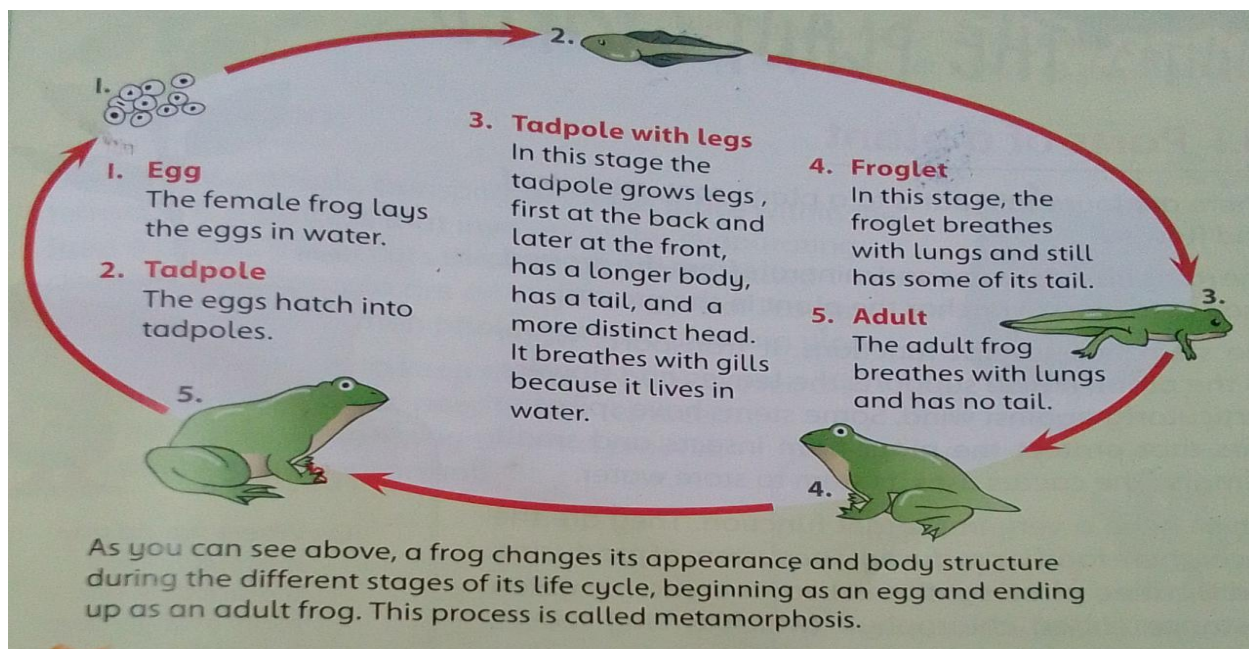
Why reproduction is necessary?

- If living things did not have the ability to reproduce, there would be no living things on Earth.

Types of Reproduction

- There are two types of reproduction:
 - Sexual reproduction
 - Asexual reproduction

Life cycle of frog



Date:21st July, 2020

Day: Tuesday

Assignment

Tutor's web link: <https://www.youtube.com/watch?v=IXWEGQUIBUY>

Question 1 Answer the following questions.

- Define reproduction?

Answer: Reproduction is the process by which living things produce new living things.

Answer: _____

- Name the stages of life cycle of frog.

Answer: 1. Egg 2. Tadpole 3. Tadpole with legs 4. Froglet 5. Adult

Answer: _____

Question 2 Encircle the best option.

- There are _____ types of reproduction.
a) 1 b) 2 c) 3 d) 4
- The eggs hatch into _____.
a) Tadpole b) tadpole with leg c) froglet d) adult

Question 3 Fill in the blanks.

- A _____ frog lays egg in water.
- Adult frog breathes with _____.
- An adult frog has no _____.

Date: 22nd July, 2020

Day: Wednesday

UNIT 2 THE ANIMAL WORLD

Topic: Questions/ Answers (1-5)

Objectives: To enable the students to comprehend the text.

Tutor's web link: <https://www.youtube.com/watch?v=J8DPvEFUxp8>

Answer the following questions.

- **Why is energy important for an animal's survival?**

Answer: Animals need energy so they can do all the things that they do. This includes growing, mending the body, moving etc.

Answer: _____

- **How do animals obtain this energy?**

Answer: Energy comes from the Sun but it is passed from one living thing to another living thing through food.

Answer: _____

- **Why do animals need to adapt to their surroundings?**

Answer: Living things are always changing to give themselves the best chance of survival. The animals that best suit their environment are most likely to survive long enough to reproduce.

Answer: _____

- **Name the three essential things animals need to survive.**

Answer: water, energy, and oxygen

Answer: _____

- **Can animals survive longer without food or without water?**

Answer: Animals can survive longer without food.

Answer: _____

Date: 23rd July, 2020

Day: Thursday

UNIT 2 THE ANIMAL WORLD

Topic: Questions/ Answers (6-10)

Objectives: To enable the students to comprehend the text.

Tutor's web link: <https://www.youtube.com/watch?v=8539INaTZv0>

Answer the following questions.

- **Where does all energy come from?**

Answer: All energy comes from the Sun.

Answer: _____

- **Arrange these parts of the food chain in the correct order :**
1. Secondary consumer 2. Primary consumer
3. Tertiary consumer 4. Producer

Answer: 1.producer 2.primary consumer 3.secondary consumer 4.tertiary consumer

Answer: _____

- **Why is animal reproduction important?**

Answer: If living things did not have the ability to reproduce, there would be no living things on Earth.

Answer: _____

- **What are the two ways of reproduction in animals?**

Answer: 1. Sexual reproduction 2. Asexual reproduction

Answer: _____

- **What is meant by metamorphosis?**

Answer: Metamorphosis is when an animal changes its appearance and body structure during the different stages of its life cycle.

Answer: _____

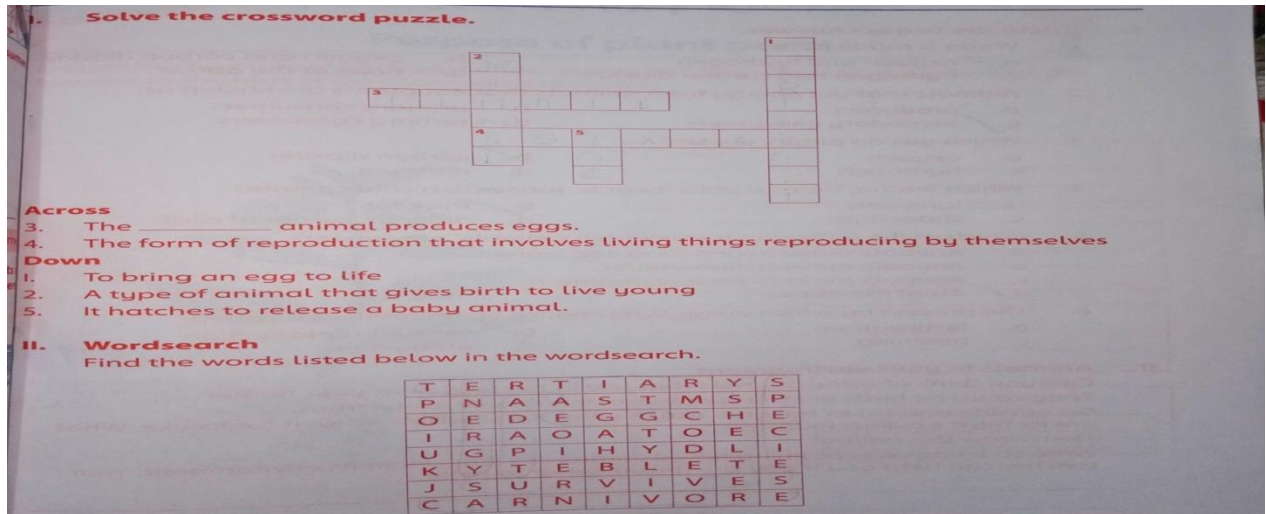
Date: 24th July, 2020

Day: Friday

UNIT 2: THE ANIMAL WORLD

Topic : Workbook page 7

Tutor's web link: <https://www.youtube.com/watch?v=8539INaTZv0>



Tertiary energy survive carnivore egg species shelter adapt

Activity: Write down few lines about Dr. Abdus Salam.

Web link: <https://youtu.be/kwQkjRqolg4>

He was a Pakistani theoretical physicist. He was the first the first Pakistani to receive a Nobel Prize in science and the second from an Islamic country to receive any Nobel Prize. He was science advisor to the Ministry of Science and technology from 1960 to 1974. As science advisor he played a role in Pakistan's development of the peaceful use of nuclear energy and may have contributed as well as in development of atomic bomb project of Pakistan.

Date: 25th July, 2020

Day: Saturday

UNIT 2: THE ANIMAL WORLD

Assessment

Total marks:20

Answer the following questions.

- Why life is not exists on other planets? /2

Answer: _____

- Why is animal reproduction important? /2

Answer: _____

- Define primary consumer. /2

Answer: _____

Encircle the best option. /3

- Plants use _____ to make their food.
b) Oxygen b) carbon dioxide c) nitrogen d) argon
- There are _____ types of reproduction.
b) 1 b) 2 c) 3 d) 4

Fill in the blanks. /2

- A _____ frog lays egg in water.
- Plants take in _____ and release _____.

Match the columns.

/6

II. Living things adapt to suit their environment. Below are six environments and six living things. Which living thing suits which environment? Connect them by drawing lines.

mountain environment

underground environment

rainforest environment

arctic environment

desert environment

river environment

Long Question

/ 4

- Why do animals need to adapt to their surroundings?

Answer: Living things are always changing to give themselves the best chance of survival. The animals that best suit their environment are most likely to survive long enough to reproduce.

Answer: _____

UNIT 3 The Plant World

Table of contents:

Sr. no.	Topics	Objectives
1.	Parts of a plants	To identify the different parts of a plant and explain the function of each.
2.	Plant processes	To explain how transpiration and transportation take place in plants.
3.	Reproduction	To explain how reproduction takes place in plants To explain pollination and describe how it occurs in plants

Date:27th July, 2020

Day: Monday

UNIT 3 THE PLANT WORLD

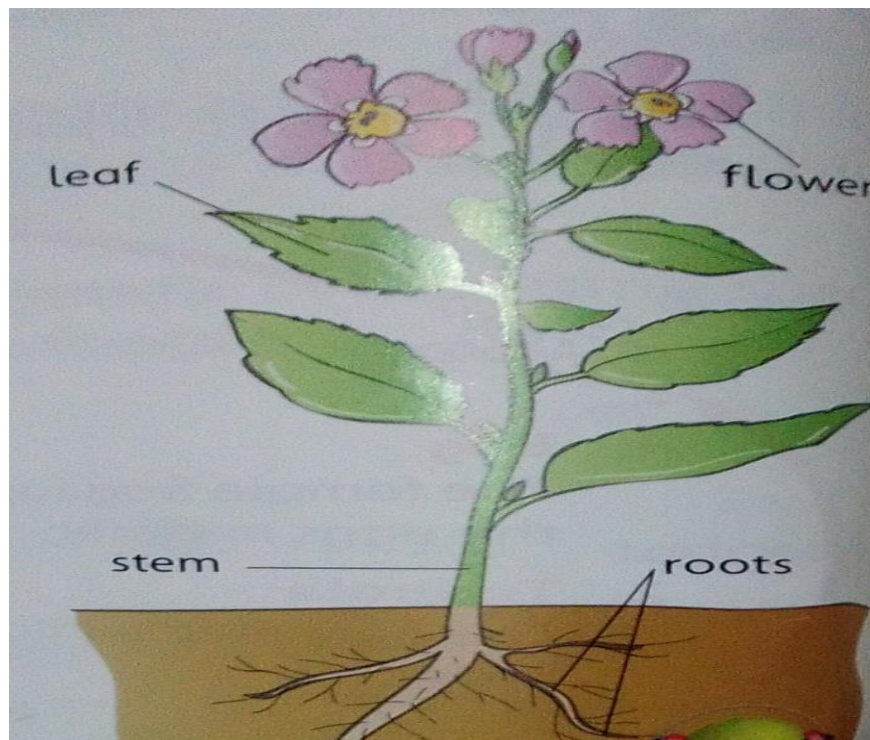
TOPIC: Parts of a plant Book page: 22

Objectives: To identify the different parts of a plant and explain the function of each.

Tutor's web link: <https://www.youtube.com/watch?v=mNUSXZMqPwo>

Understanding about parts of plant

- There are four main parts of plant: root, stem, leaf, and flower.
- The **roots** absorb water and minerals from the ground. They also help to anchor the plant in the ground.
- **Stem** transports water up the plant. It also supports the leaves and flowers against the wind. Some stems have spikes or hairs that protect the plant from insects and small animals. The cactus uses its stem to store water.
- **Leaves** are the place where food is produced. The system of producing food is called photosynthesis. Leaves contain a green substance called chlorophyll. The chlorophyll converts energy from the Sun and when it combined with water and carbon dioxide, food is produced.
- **Flowers** produce seeds which form new plants. Not all plants have flowers.



Date: 28th July, 2020

Day: Tuesday

Assignment

Tutor's web link: https://www.youtube.com/watch?v=zeMWN_MTy8Y

Question 1 Answers the following questions.

- Name the main parts of plants?

Answer: 1. Roots 2. Stem 3. Leaves 4. Flower

Answer: _____

- Name the green substance in the leaves?

Answer: The green substance present in leaves called chlorophyll.

Answer: _____

Question 2 Encircle the best option.

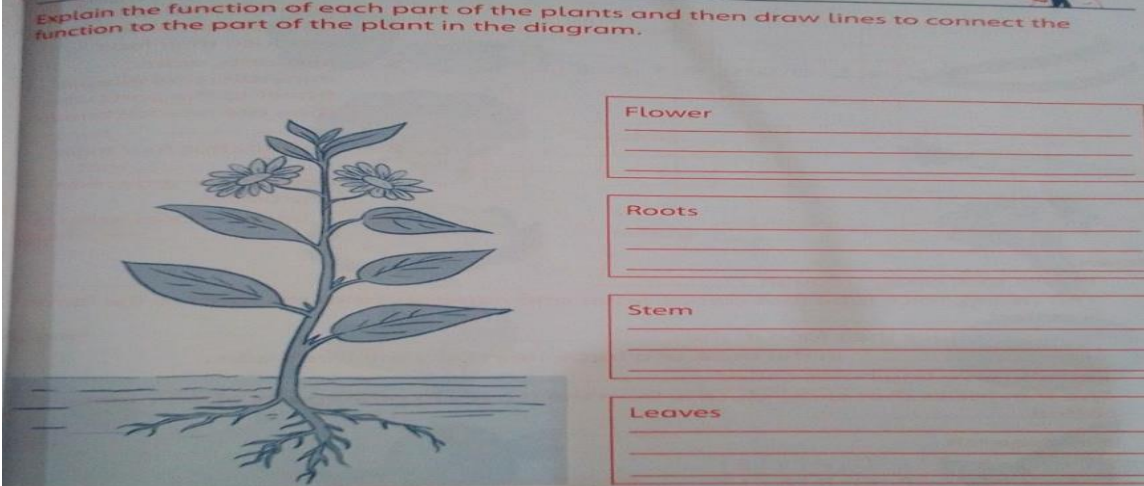
- _____ transports water up the plant.
a) Roots b) stem c) leaves d) flower
- Flowers produce _____ which form new plants.
a) Ovary b) fruit c) seeds d) stem
- The cactus uses its _____ to store water.
a) Roots b) stem c) leaves d) flower

Question 3 Fill in the blanks.

- The _____ absorb water and minerals from the ground.
- The _____ converts energy from the Sun.

Question 4

Explain the function of each part of the plants and then draw lines to connect the function to the part of the plant in the diagram.



Flower

Roots

Stem

Leaves

Date: 29th July, 2020

Day: Wednesday

UNIT 3 THE PLANT WORLD

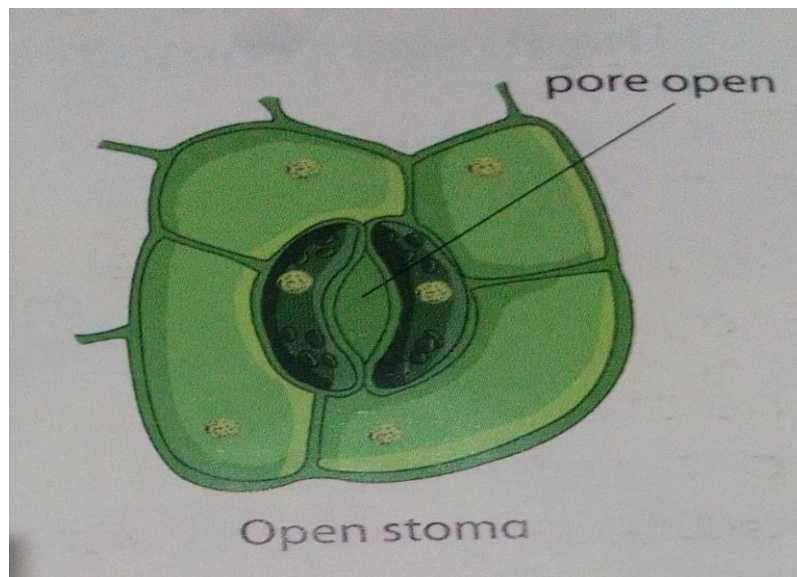
TOPIC: Plants processes Book page: 23

Objectives: To explain how transpiration and transportation take place in plants.

Tutor's web link: https://www.youtube.com/watch?v=3PpenTgvd_A

Understanding about different plants processes

- There are four different processes that enable plants to live, grow and reproduce.
- These processes are 1. Photosynthesis 2. Transpiration 3. Transportation 4. Reproduction
- **Transpiration:** That is a process that involves water evaporating from a plant. This occurs through tiny hole called stomata. Stomata are present at the underside of the leaves and opens when photosynthesis is taking place. It helps to keep the plant cool.
- **Transportation:** plants have tubes that transport water, minerals and glucose (food) to where they are needed. These tubes are of two types: xylem and phloem.
- Xylem are strong thick tubes that carry water and minerals from the plant's roots to the leaves.
- Phloem are thinner than xylem and conduct food (glucose) from the leaves to other parts of the plant.
- **Photosynthesis:** It is the process by which plants produce their own food.
- **Reproduction:** It is a process in which flowers produce seeds which form new plants.



Date: 30th July, 2020

Day: Thursday

Assignment

Tutor's web link: <https://www.youtube.com/watch?v=g7gkCoZyAN8>

Question 1 Answer the following questions.

- Name the processes that occur in plants.

Answer: 1. Photosynthesis 2. Transpiration 3. Transportation 4. Reproduction

Answer: _____

- Define transpiration.

Answer: It is the process that involves water evaporating from plants.

Answer: _____

- Name the tubes that help in transportation?

Answer: 1. Xylem 2. Phloem

Answer: _____

Question 2 Encircle the best option.

- Transpiration occurs through tiny holes called _____.
- a) Stomata b) chlorophyll c) xylem d) phloem
- Transpiration helps to keep the plant _____.
- a) Warm b) healthy c) cool d) all
- _____ transport glucose from leaves to other parts of plant.
- a) Xylem b) phloem c) stomata d) chloroplast

Question 3 Fill in the blanks.

- Phloem are _____ than xylem.
- Plants have _____ that transport water and food.
- Xylem carry _____ and _____ from the plant roots to the leaves.

Question 4 Match the columns.

Column 1	Column 2
Xylem transport	transportation
Tubes help in	stomata
Evaporation occur through	water