

## Quiz 2-Revision Sheet

### Grade 5

#### 1- Photosynthesis

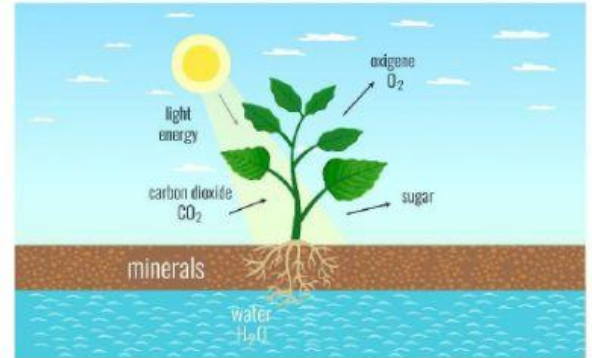
Photosynthesis is the process by which plants can 'make' their own food.

**Photosynthesis** starts when chlorophyll absorbs energy from sunlight. Green plants use this light energy to change water and carbon dioxide into oxygen and nutrients called sugars.

The leaves on plants and trees are the 'food factories'.

The leaves are green because they contain chlorophyll.

Chlorophyll is essential for photosynthesis because it allows the plant to absorb and then use energy from the sun.



What is needed for Photosynthesis?

- 1-
- 2-
- 3-

Carbon dioxide from the air passes through small pores (holes) in the leaves. These pores are called-----.

What does Photosynthesis produce?

- 1-
- 2-

Choose the correct answer:

- 1- What is photosynthesis?
  - ☐ The process plants use to turn carbon dioxide and water into food.
  - ☐ The process plants use to chlorophyll and sunlight into air.
  - ☐ The process plants use to turn sunlight and chlorophyll into soil.
- 2- What does a plant release into the air?
  - ☐ Plants release carbon dioxide into the air.
  - ☐ Plants release sugar into the air.
  - ☐ Plants release oxygen into the air.
- 3- What does chlorophyll capture?
  - ☐ Chlorophyll captures water from the air.
  - ☐ Chlorophyll captures carbon dioxide from the air.
  - ☐ Chlorophyll captures the energy of sunlight.
- 4- Leaves use the energy from the sun to change carbon dioxide and water into what?
  - ☐ chlorophyll
  - ☐ oxygen
  - ☐ carbon dioxide
  - ☐ sugar

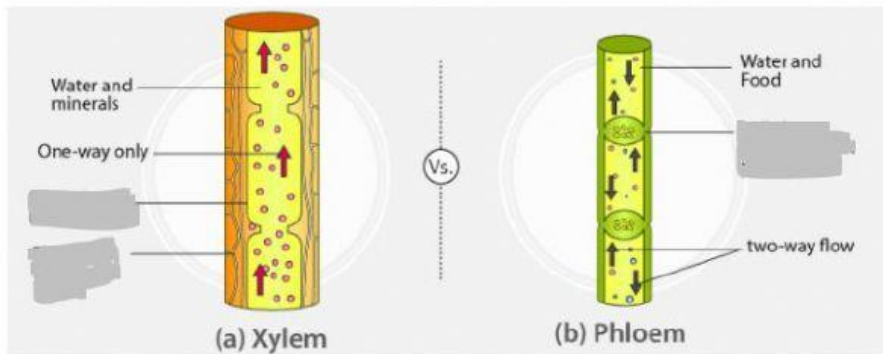
## 2- Transpiration

Transpiration is the path through which plants take in water through their roots and it is transported to the stems and leaves and given out as water vapor through the pores of their leaves called **stomata**.

## Transport in Plants

**Xylem** and **phloem** make up the big transportation system of plants.

Xylem transports water and mineral salts from the roots up to other parts of the plant, while phloem transports sugar between the leaves and other parts of the plant.



	XYLEM	PHLOEM
What is carried?		
Which direction?		
From where? To where?		

**What does the Xylem transport?**

- ☐ Water and Minerals
- ☐ Glucose
- ☐ Chlorophyll

**What does the Phloem transport?**

- ☐ Water and Minerals
- ☐ Sugar
- ☐ Chlorophyll

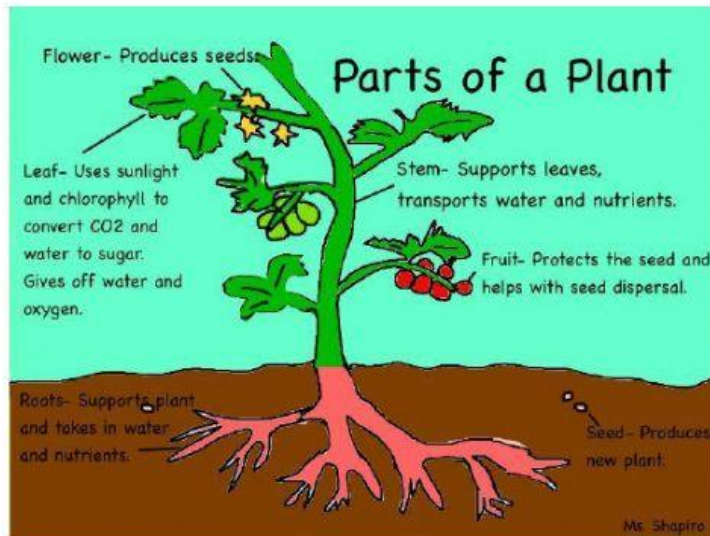
**Phloem tubes transport substances in which direction?**

- ☐ Up
- ☐ Up and down

**Xylem tubes transport substances in which direction?**

- ☐ Up
- ☐ Up and down

### 3-plant parts and their function



#### 1- What is the function of a root?

- makes seeds
- makes food
- makes new plants
- Support plant and takes in water and nutrients.

#### 2- What is the function of a leaf?

- makes seeds
- takes water
- makes new plants
- makes food through photosynthesis

#### 3- What is the function of the stem?

- makes seeds
- makes food
- transports/moves water from the roots to the flower and leaves

What does a plant need to survive?

- 1-
- 2-
- 3-

#### 4-Food chain and food web

A **food chain** shows how animals depend on other plants and animals for their

food and survival.

Shows how each living thing gets its food.

Some animals eat plants and some animals eat other animals.

For example, a simple food chain links the trees & shrubs, the giraffes (that eat trees & shrubs), and the lions (that eat the giraffes).

Each link in this chain is food for the next link.

**Food web** A collection of food chains interconnected from the same ecosystem

Arrows show the flow of energy from one organism to another

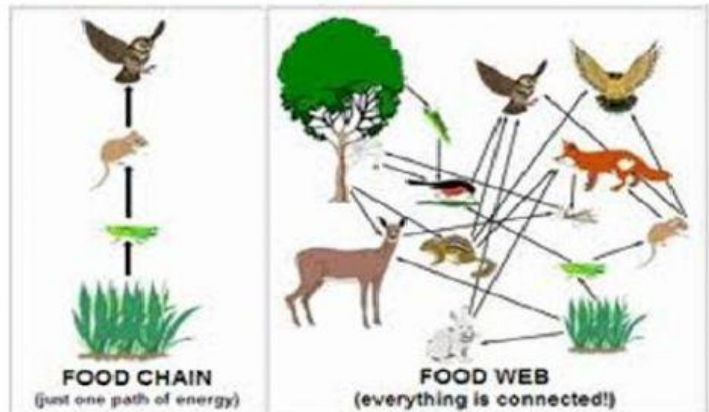
Multiple consumers and producers.

#### Producers and consumers

A food chain always starts with a **producer**. This is an organism that makes its own food. Most food chains start with a green plant, because plants can make their food by **photosynthesis**.

A living thing that eats other plants and animals is called a **consumer**.

## Food Chain vs. Food Web



#### 1- What does every food chain start with?

- ☐ producers
- ☐ consumer
- ☐ decomposers

#### 2- A connection of food chains with many food energy paths in an ecosystem is a

- ☐ ecosystem
- ☐ food web
- ☐ environment

#### 3- Which best describes what a food chain shows you?

- ☐ Energy flow through an ecosystem
- ☐ Food flowing through an ecosystem
- ☐ Consumers going into other consumers



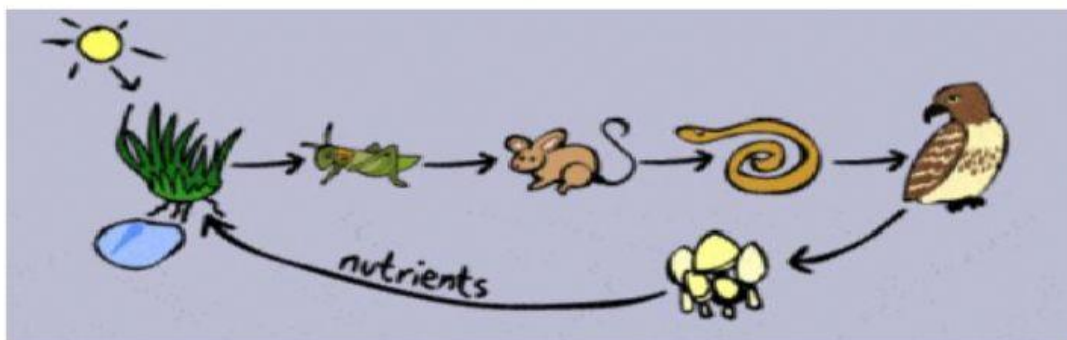
4- What are plants called in a food chain?

- Producers
- Consumers
- Decomposers

5- What are animals called in a food chain?

- Producers
- Consumers
- Decomposers

6- Which of these organisms would receive energy from the mouse?



- Plant
- Rabbit
- Mouse
- snake