

# 03/28      Photosynthesis      #4

Plan  
-Plant diagrams  
- Photosynthesis

Collect your data for the producer investigation. You may add 30ml water.

## Data Tables

Control (sun, water, & soil)

No \_\_\_\_\_

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)	Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)
03/28	0cm	no growth.			

Exit goal  
Describe photosynthesis

Then work on your plant diagram.

**Learning target:** I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

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No \_\_\_\_\_

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)	Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)
3/28	0cm	Not broken through surface.			

Exit goal  
Describe photosynthesis

Then work on your plant diagram.

**Learning target:** I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

Add 30 ml of water to your plant.

## Data Tables

Control (sun, water, & soil)

No \_\_\_\_\_

Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)
0cm	Stage 2 for 2 seed.

Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)

### What stage is your radish plant in?



I can investigate what producers need to make their own

No water: no

**Learning target:** food by planning a controlled investigation.

## Period 2

Add 30 ml of water to your plant.

### Data Tables

Control (sun, water, & soil)

No \_\_\_\_\_

Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)	Date	Average Height (cm)	Observations (Color, strength, shape, leaf size and number...)
0cm	No visible growth			

### What stage is your radish plant in?



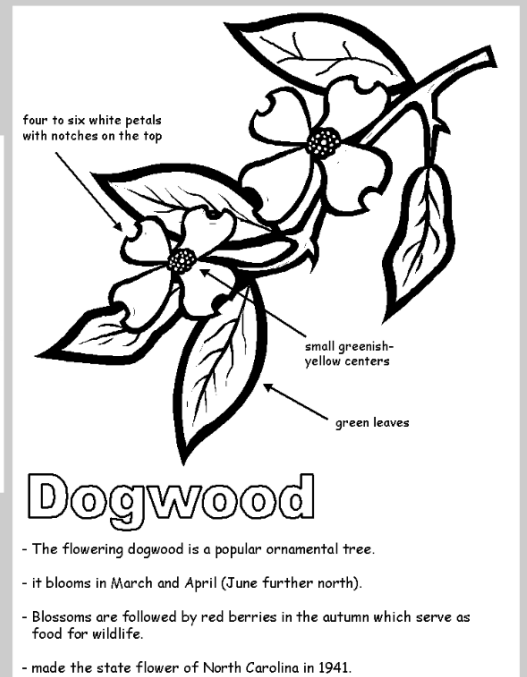
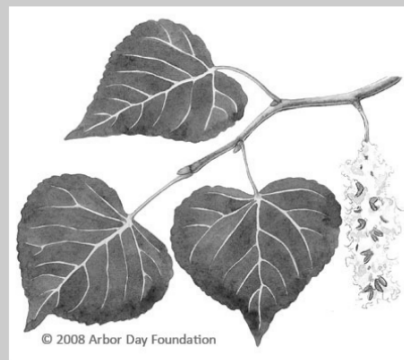
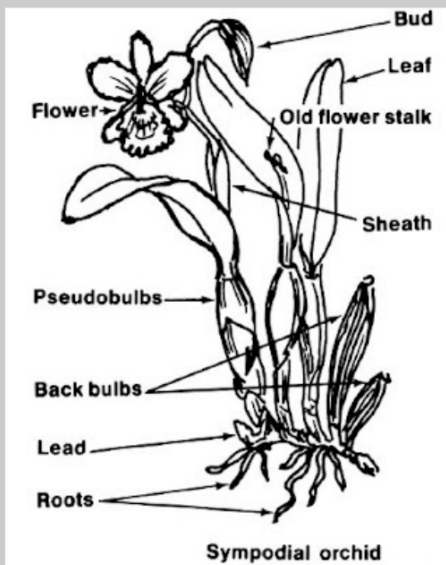
I can investigate what producers need to make their own

No water: no

**Learning target:** food by planning a controlled investigation.

Plant Diagrams

1. ABCD (with labels)
2. Include the scientific and common plant name as a title.
3. Include measurements



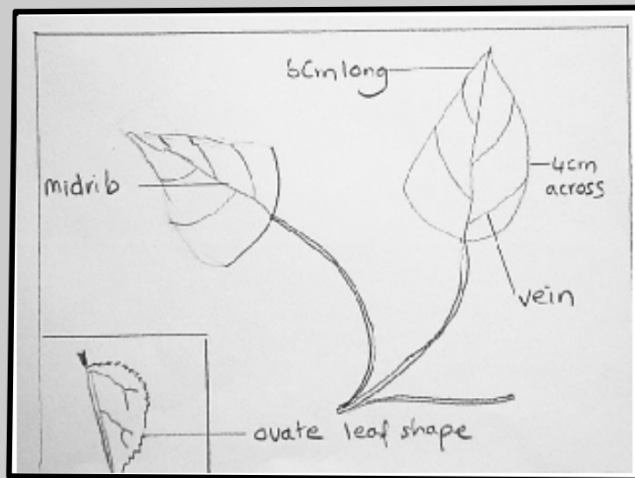
**Learning target:**

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

03/27 Producers

#3

### Plant Diagrams



1. Draw your sample accurately.
2. label features
3. label the size
4. Find its name

**Name:** (english and latin)

**Description:** Size, color, spread, flower special characteristics.

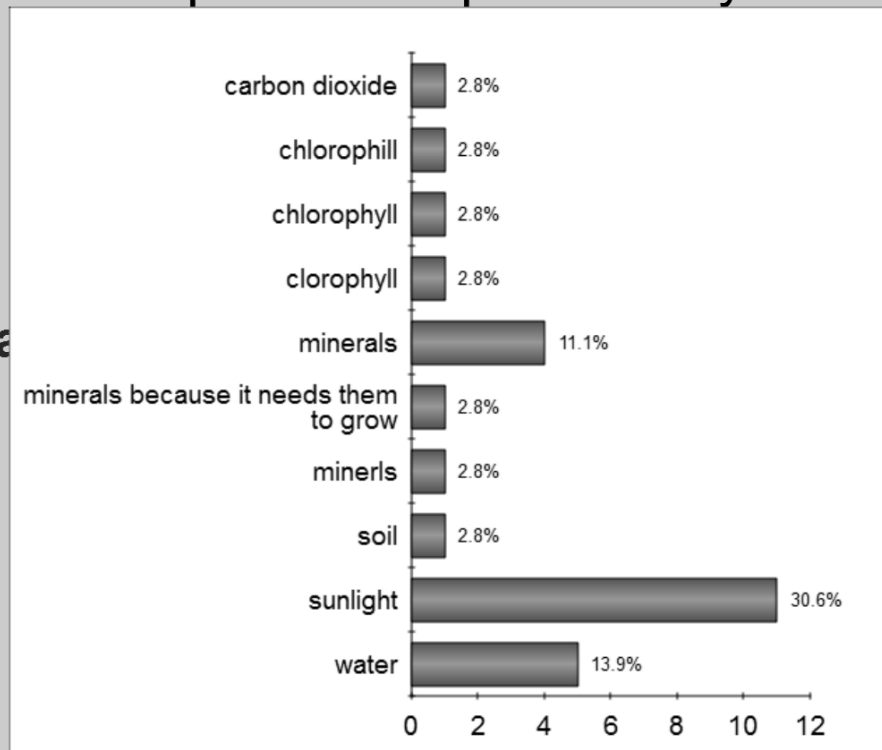
**Habitat:** Where is it located, shade? near water? dry?



**Learning target:** Il can make detailed observations of plants and show the detail in an accurate drawing.

Answer the Giant Sequoia Tree question in your journal.

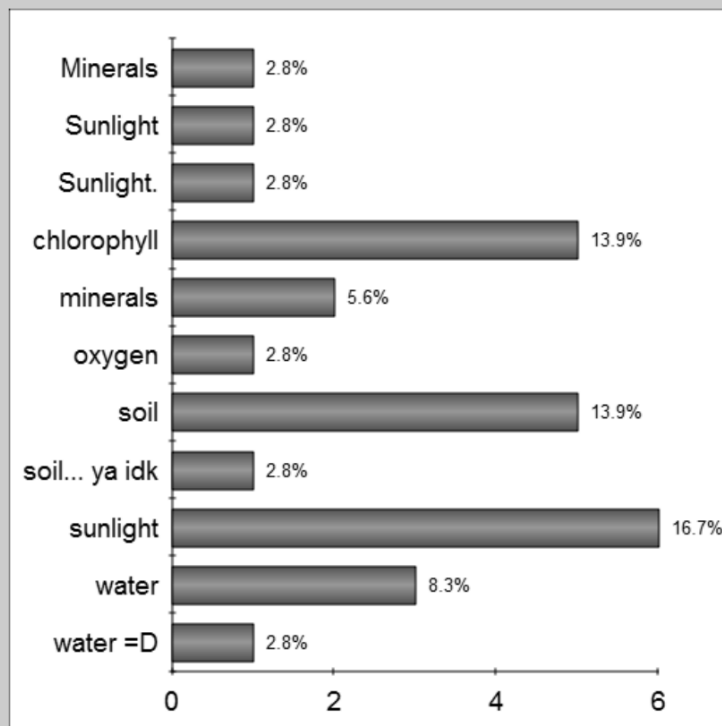
Period 4



Learning 1

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

Answer the Giant Sequoia Tree question in your journal. **Period 1**



**Learning 1**

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

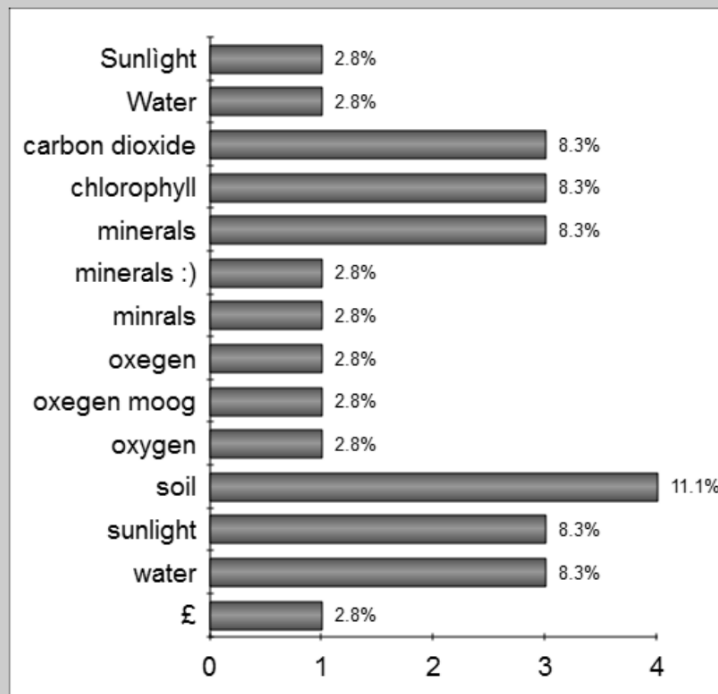


# 03/28 Photosynthesis

# #4

Answer the Giant Sequoia Tree question in your journal.

Period 2

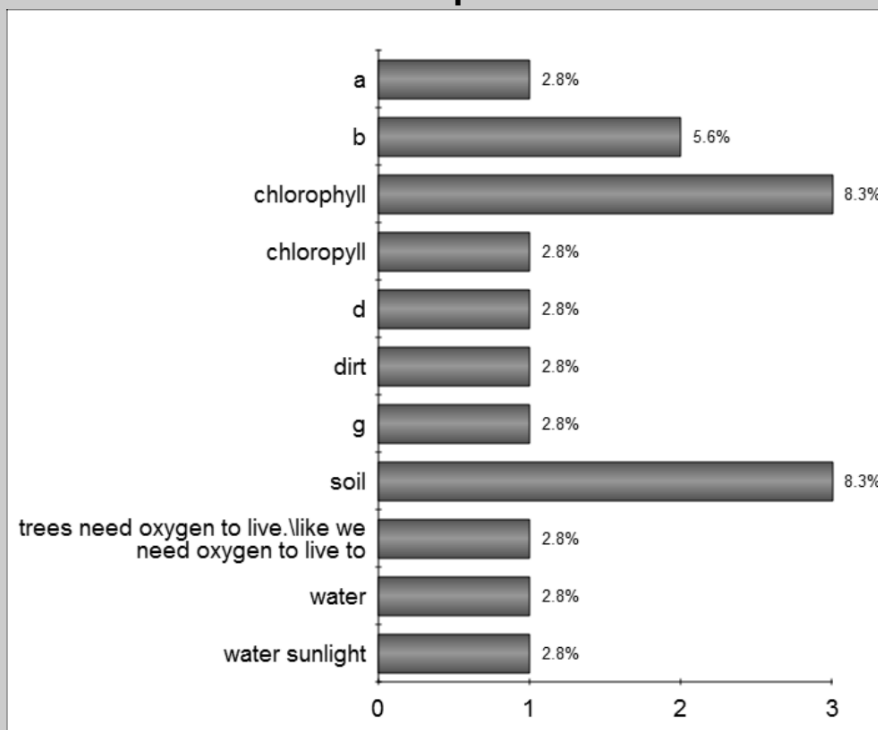


## Learning 1

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

Enter your answer in the ActivExpression.

Period 3



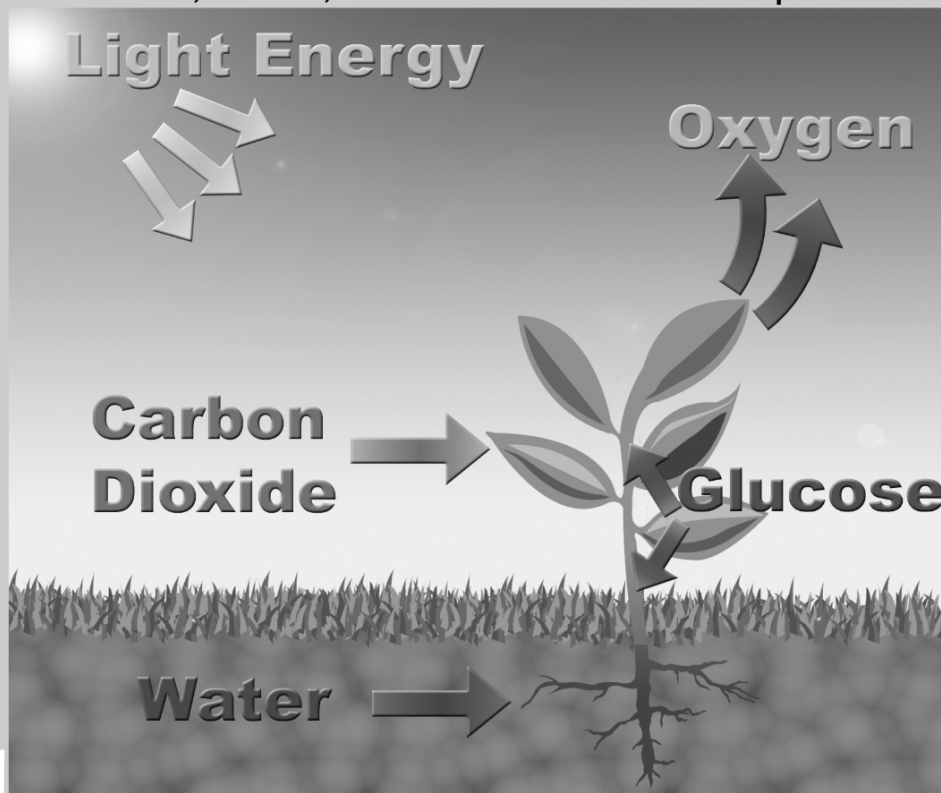
Learning 1

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

# 03/28 Photosynthesis

#4

**Photosynthesis:** The process plants use to combine energy from the sun, water, and carbon dioxide to produce food.



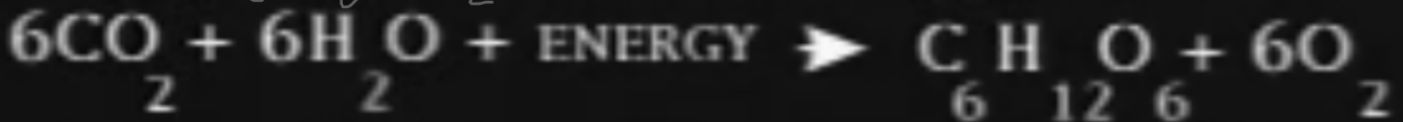
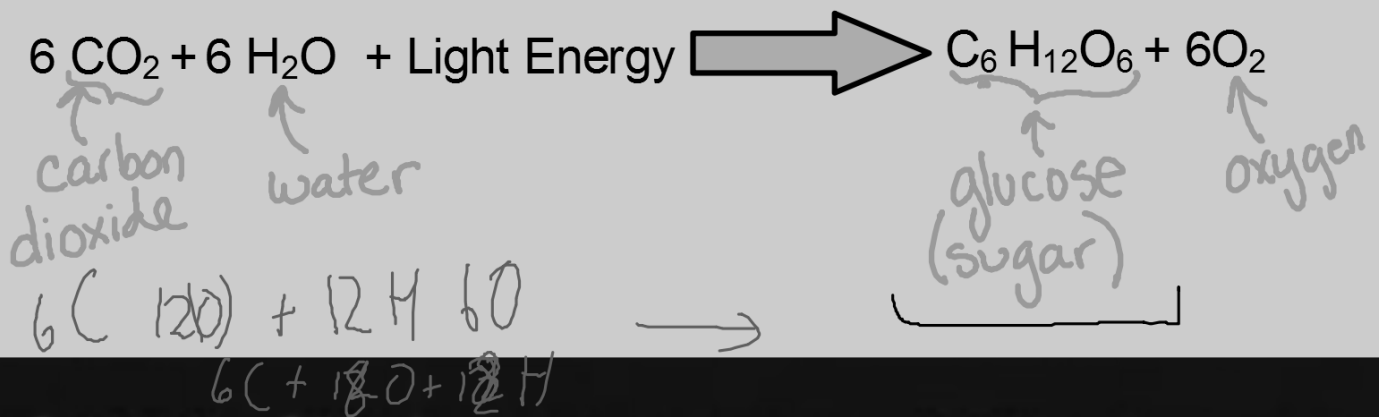
**Learning 1**

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

# 03/28 Photosynthesis

# #4

## Photosynthesis



**Learning target:** I can describe how plants make food using energy from the sun.

03/28    Photosynthesis

#4

Photosynthesis Reading

**Read pages 231 and 232**

*Exploring Life Science* book



**Learning**

**target:** I can understand how organisms get energy.

03/28 Photosynthesis

#4

Close the book  
and try to complete  
the photosynthesis  
sheet.



**Learning**

**target:** I can understand how organisms get energy.

03/28 Photosynthesis

#4

Use the book to  
finish the  
photosynthesis  
sheet.



**Learning**

**target:** I can understand how organisms get energy.

# 03/28 Photosynthesis #4

## Correct the reading activity

The process in which \_\_\_\_\_ energy is used to make \_\_\_\_\_ has its own special name:

\_\_\_\_\_. The word *photo* means \_\_\_\_\_ and \_\_\_\_\_ means to put together.

Photosynthesis is the \_\_\_\_\_ and most important \_\_\_\_\_ process in the world. It is very \_\_\_\_\_.

In photosynthesis, the \_\_\_\_\_ light energy is \_\_\_\_\_ by chlorophyll, which is a \_\_\_\_\_ pigment. Through a complex series of \_\_\_\_\_, the light energy is used to \_\_\_\_\_ water from the \_\_\_\_\_ with \_\_\_\_\_ from the air.

One of the \_\_\_\_\_ of the chemical reaction is \_\_\_\_\_, which is generally in the form of a \_\_\_\_\_ called \_\_\_\_\_.

Glucose can be broken down to release \_\_\_\_\_. Cells need energy to carry out their life functions. Glucose can also be changed into other chemicals. Some of these chemicals are used by a \_\_\_\_\_ for growth and for repair of its parts. Other chemicals are stored in special areas in the \_\_\_\_\_ and stems.

The other product of \_\_\_\_\_ is \_\_\_\_\_. Oxygen is important to \_\_\_\_\_ and to almost every other living thing on Earth.

Most photosynthesis occurs in \_\_\_\_\_.





03/28

# Photosynthesis

#4

Correct the reading activity

The process in which light energy is used to make food has its own special name: photosynthesis. The word *photo* means light and synthesis means to put together.

Photosynthesis is the largest and most important manufacturing process in the world. It is very COMPLEX.

In photosynthesis, the Sun's light energy is captured by chlorophyll, which is green pigment. Through a complex series of chemical reactions the light energy is used to combine water from the soil with Carbon dioxide from the air.

One of the products of the chemical reaction is food which is generally in the form of a Sugar called glucose.

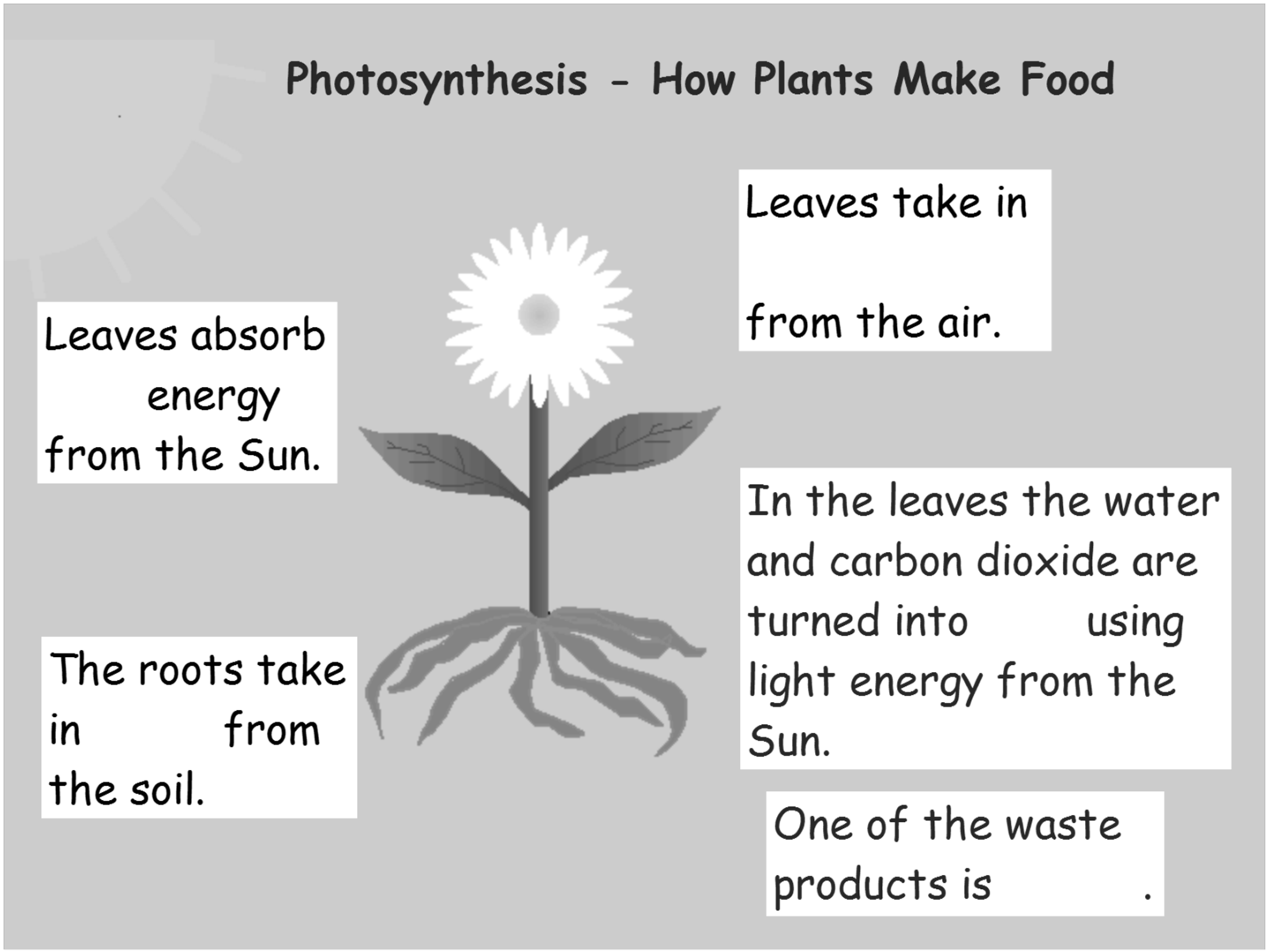
Glucose can be broken down to release energy. Cells need energy to carry out their life functions. Glucose can also be changed into other chemicals. Some of these chemicals are used by a plants for growth and for repair of its parts. Other chemicals are stored in special areas in the roots and stems.

The other product of photosynthesis is oxygen. Oxygen is important to you and to almost every other living thing on Earth.

Most photosynthesis occurs in leaves.



## Photosynthesis - How Plants Make Food



Leaves absorb energy from the Sun.

The roots take in \_\_\_\_\_ from the soil.

Leaves take in \_\_\_\_\_ from the air.

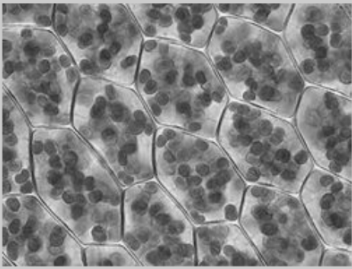
In the leaves the water and carbon dioxide are turned into \_\_\_\_\_ using light energy from the Sun.

One of the waste products is \_\_\_\_\_ .



**Learning**

**target:** I can describe how plants make food using energy from the sun using a diagram..



Photosynthesis occurs in the chloroplasts. This is one of the organelles in the cells of plants.

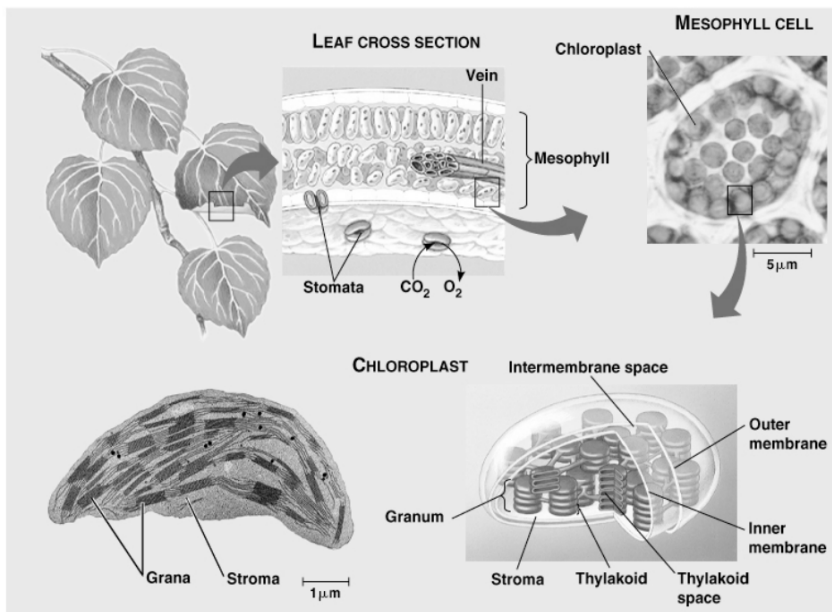


**Learning**

**target:** I can describe how plants make food using energy from the sun using a diagram..

# 03/28 Photosynthesis

# #4



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Chlorophyll: a pigment that reflects green light, and absorbs red and blue light to start the process of photosynthesis. Chlorophyll pigments are clustered in the thylakoid membranes



## Learning

**target:** I can describe how plants make food using energy from the sun using a diagram..



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# 03/28 Photosynthesis #4

Answer the Giant Sequoia Tree question in your journal.

Enter text

AMAN HAYLEY	ASPBALL EMMA	BAER JACOB
BAILEY JAKE	BARBER BARRY	BLACK HOLLY
BLOOD MACKENZIE	BRINK ELLISON	CAPTALINE RYAN
FENDER ASHTON	GILIE ELIDA	GREEN SARAH

observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

ActivManager 2 Devices Found

9:00 AM 3/28/2012

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# 03/28 Photosynthesis #4

Answer the Giant Sequoia Tree question in your journal.

Enter text

AMAN HAYLEY	ASPBALL EMMA	BAER JACOB
BAILEY JAKE	BARBER BARRY	BLACK HOLLY
BLOOD MACKENZIE	BRINK ELLISON	CANTALINE RYAN
FENDER ASHTON	GILIE ELIDA	GREEN SARAH

observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

10:00 AM 3/28/2012



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# 03/28 Photosynthesis #4

Answer the Giant Sequoia Tree question in your journal.

Period 2

Enter text

AMAN HAYLEY	ASPINALL EMMA	BAER JACOB
BAILEY JAKE	BARKER BARRY	BLACK MOLLY
BLOOD MACKENZIE	BRENN ELLISON	CANTALERO RYAN
FENDER ASHTON	GLEJE ELIDA	GREEN SARAH

observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

11:45 AM 3/28/2012

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# 03/27 Producers #3

## Plant Diagrams

1. Draw your sample accurately.
2. Label features
3. Label the size
4. Find its name

**Name:** (english and latin)

**Description:** Size, color, spread, flower characteristics.

**Habitat:** Where is it located, shade? near

Enter text

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BAILLY JAKE	BARBER BARRY	BLACK HOLLY
BLOOD MACKENZIE	BRINK ELLISON	CANTALINI RYAN
FENDER ASHTON	GILIE ELIDA	GREEN SARAH

tailed observations of plants and show

**Learning target:** the detail in an accurate drawing.

12:43 PM 3/28/2012