

Aim: How can we describe the types of nutrition in living things?

Do now:

1. What is nutrition?

2. Why do living things need nutrition?

Nutrition:

**How an organism gets food
(nutrients, organic compounds) and makes it
available to the cells.**

Nutrients:

useful portion of food:

-sugar

-amino acid

-fat

-starch

Organic Compounds =

FOOD!!!!!!

2 TYPES OF NUTRITION

1. Autotrophic nutrition –

Auto (self)

trophic (refers to feeding and nutrition)

“Self feeding.”

-Organisms that make their own
organic compounds

ex. Photosynthesis

Chemosynthesis

a. **Photosynthesis**

Photo (light)

synthesis (creating, making)

**-Light is the source of energy for
the production of food.**

-“Who?”

ex. Plants

Autotrophs:



b. Chemosynthesis –

***Chemo* (chemical)**

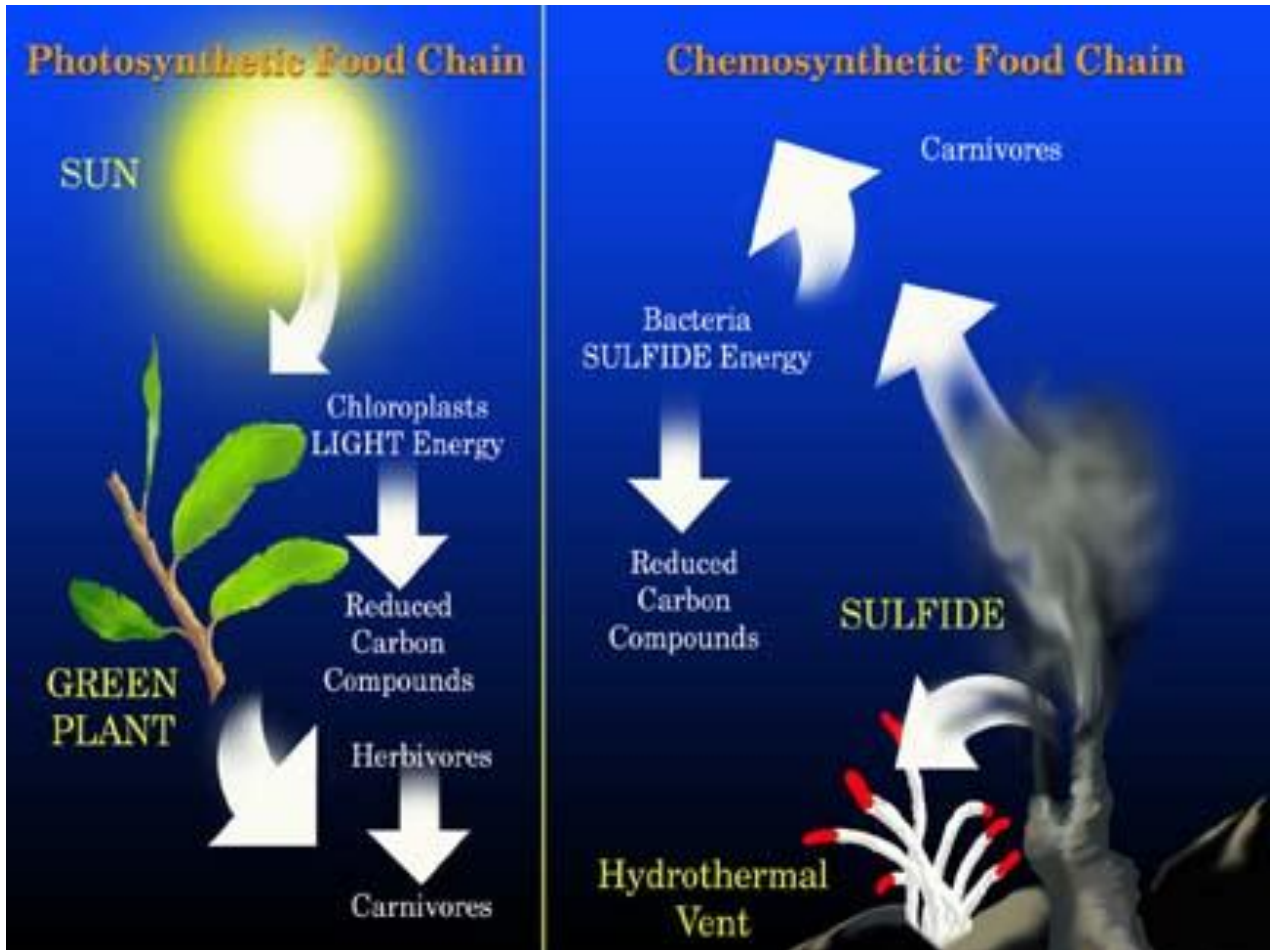
***synthesis* (creating, making)**

-Chemical activity is the source of energy for the production of organic compounds.

Who?

-organisms in environments that do not rely on the sun to make food.

ex. Deep sea organisms



Photosynthesis

Chemosynthesis



Chemosynthetic nutrition - Deep sea tube worms and arthropod

So far.....

Nutrition:

1. Autotrophic:

- a. photosynthesis**
- b. chemosynthesis**

Autotrophs –

**Organisms that can make their own food
by photosynthesis or chemosynthesis.**

2. Heterotrophic nutrition –

Hetero: other

trophic: (refers to feeding and nutrition)

“Fed by others.”

- **Heterotrophs: Organisms that eat organic compounds made by others.**

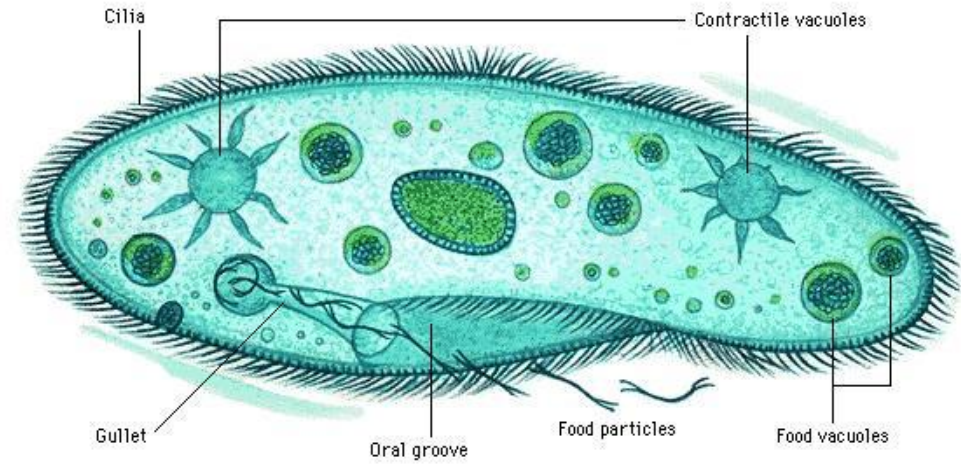
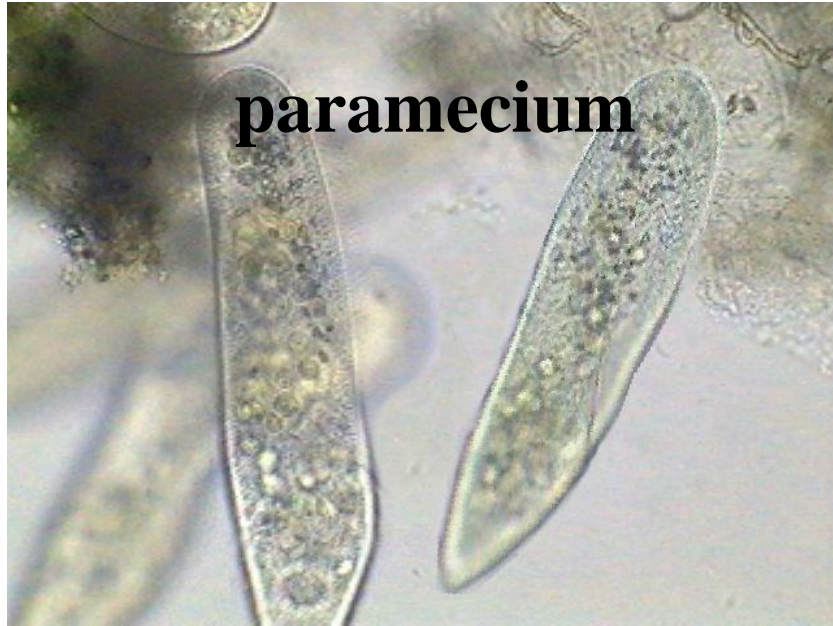
ex. Animals or animal-like protists

called protozoa: amoeba, paramecium.

Proto (first)

zoa (animal, zoo)

Examples of heterotrophs



More heterotrophs....



Obviously, a _____ .
heterotroph!



Are you a heterotroph?

Summary:

2 types of nutrition on Earth:

1. Autotrophic

- photosynthesis**
- chemosynthesis**

2. Heterotrophic

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