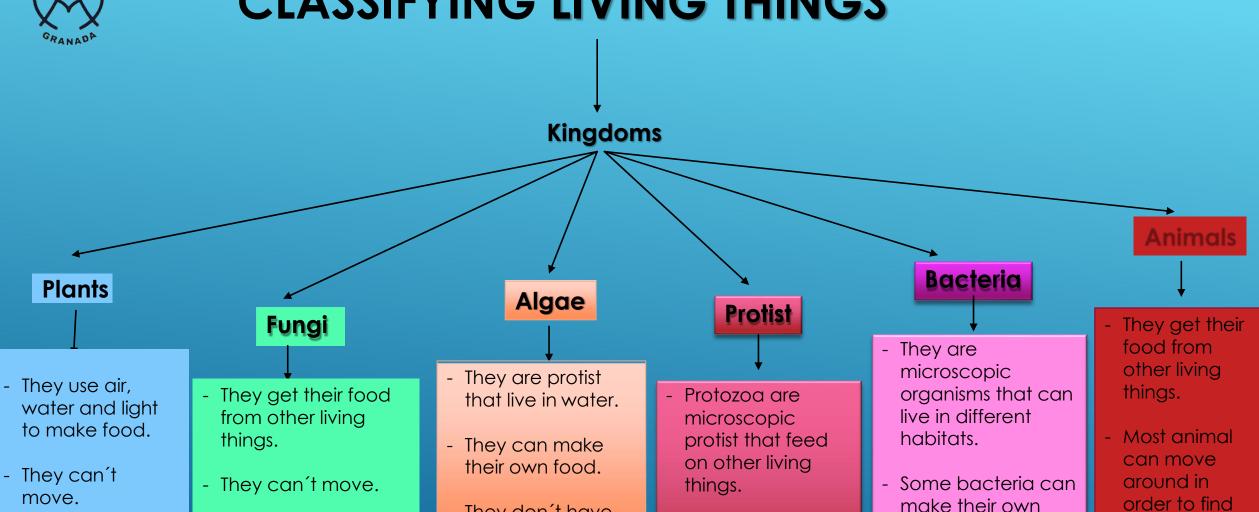
# UNIT 1. LIVING THINGS

4th grade / Natural Science



# **CLASSIFYING LIVING THINGS**



- They make their own food.
- Some of them are microscopic.
- They don't have roots or leaves
- They can live in different habitats.

order to find food.

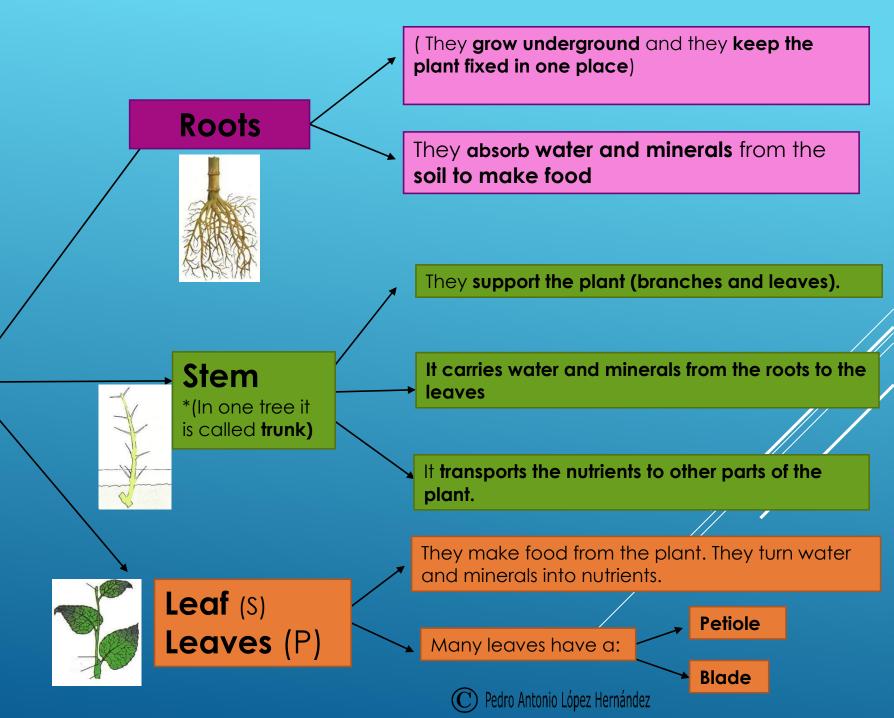
food and other get

their food from

other being.

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# THE PLANT KINGDOM

Parts of the plant







Plants absorb sunlight, carbon dioxide, water and minerals

They release oxygen into the air

Respiration -

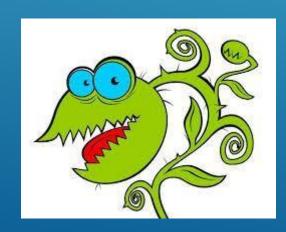
Plants absorb oxygen and they release carbon dioxide into the air

# THE VITAL FUNCTIONS OF PLANTS

Interaction

**Nutrition** 

Some plants **move toward sunlight** 



Reproduction

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Plants can reproduce by seeds

Plants can reproduce by one piece of the same plant



# PLANT CLASSIFICATION

"We classify plants depending on how they look and feel and how they perform their vital functions"

# **Flowers**

It is the reproductive organ of most plants



#### Flowering plants

They reproduce through flowers, fruits or seeds.

#### Non-flowering plants

They don't have flowers, fruits or seeds but reproduce by spores



# **Stems**

We also classify plants according to the look and feel of their stems

#### **Woody plants**

They have a hard stem. They have two groups:

- Trees
- Bushes

### **Herbaceous plants**

They have a thin, flexible stem.

They are: herbs or daisies.







# Animals need **energy** that comes **from food**.

Food contains nutrients.

In the process of nutrition, animals transform NUTRIENTS into ENERGY

# **Nutrition**

There are three types of animals according with their food

Carnivores They only eat other animals

Omnivores -

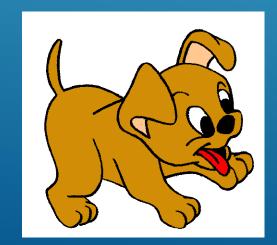
**Herbivores** 

They eat plants and other animals

They only

# THE ANIMALS KINGDOM

"Vital functions in order to live and grow"



### Interaction

The ability to respond to the environment.

For example:

When one animal is hot, he moves into the shade

# Reproduction

"Living things can make other living things"

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Viviparous—

They are born alive from their mothers. For example: Dogs.

Oviparous

They are born from eggs. For example: Ducks



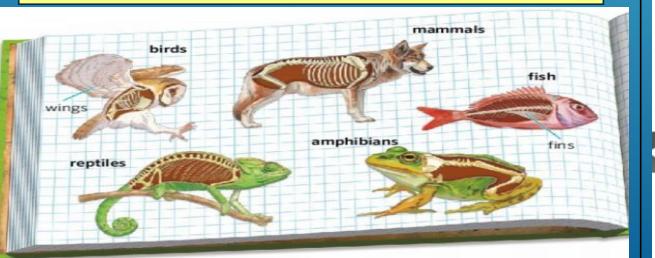
# **ANIMALS CLASSIFICATION**



#### **Vertebrates**

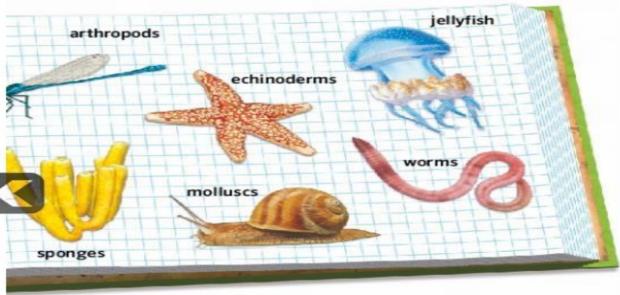
"Animals with a backbone"

- They have **an internal skeleton** with bones that support the body and protect the internal organs such as the heart or the lungs.
- Some vertebrates are viviparous and other are oviparous.
- All vertebrates have head, body and limbs.
- The spinal column or backbone has many individual bones that are joined together.



#### **Invertebrates**

- Animals that don't have a backbone.
- They don't have an internal skeleton or bones.
- All invertebrates are OVIPAROUS.





# **Ecosystem**

" /: [All the idifferentiliving things that interact in aparticular place " "

### **Habitats**

- They have a particular temperature, light, air, water and type of soil found there.
  - " THESE CONDITIONS ARE KNOWN AS AN ENVIRONMENT"

### **Communities**

- The group of all populations that share a habitat.
  - Plants, animals and other living things can be part of the same community.

# **Individuals and population**

- Living things live together in group.
- They live with other animals of the same species.

### Food chains

- They show the feeding relationships between the different organisms within an ecosystem.

