

# Exploring Ecology

EQ: How do biotic and abiotic factors affect an ecosystem?

(Q1)

**Ecology:** The study of the interactions of living organisms with one another and with their physical environment.

## **Ecological Methods:**

Observing: Collecting data

(Q2)

Experimenting: Testing hypothesis

Analyzing: Review data, make predictions, and create a model.



# Exploring Ecology

(Q3)

## Levels of Ecological Organization

1. Organism
2. Population
3. Community
4. Ecosystem
5. Biome
6. Biosphere

# Biotic and Abiotic

(Q4)

Ecosystems are influenced by a combination of biological (BIOTIC) and physical factors (ABIOTIC).

**Biotic Factors** : The living aspects- all organisms- in a habitat

- Plants
- Animals
- Bacteria
- Protista
- Fungi



# Biotic and Abiotic Cont.

**Abiotic Factors:** The physical aspects- not living- in a habitat

- Temperature/ Sunlight
- Precipitation
- Humidity/ Wind
- Nutrient/ soil availability



# Biotic and Abiotic Practice

1

On your notebook  
create a T- Chart

2

One side should be for  
biotic factors and one  
side for abiotic factors

3

As the video plays, list  
as many of each  
factor as you can.