

Cells

- unicellular -
 - Amoeba, bacteria
- multicellular

Prokaryotic - cells w/o an organized nucleus or membrane covered organelles

Eukaryotic - organized nucleus + membrane covered organelles

Is it alive?



Evolve - change over a LONG time period of time to better survive in an environment

Ex: Galapagos Finches beaks & allowing them to eat seeds/nuts

Change over Time

ADAPT OVER TIME

Reproduce

asexual - one parent (binary fission, conjugation)

Sexual - two parents (egg/sperm)

- produce offspring

Requires Energy

Growth + Development

Growth - increase in size + shape

Development - mature over time (crawl - walk)

Lifespan -

Internal Balance

Respond to Stimuli

stimuli - anything that causes a reaction or change in an organism either internally or externally

- ex: pupils contract in bright light
- jump when you hear a loud noise
 - plants grow towards sunlight

cells → tissues → organs → organ systems → organism

CHARACTERISTICS OF LIVING THINGS

Energy - ability to do work

autotrophic - make their own food

heterotrophic - cannot make their own food

Decomposers - absorb their food from their surroundings (fungus)

Homeostasis - maintaining a stable internal environment
ie: humans maintaining a body temp of 98.6°F / 37°C