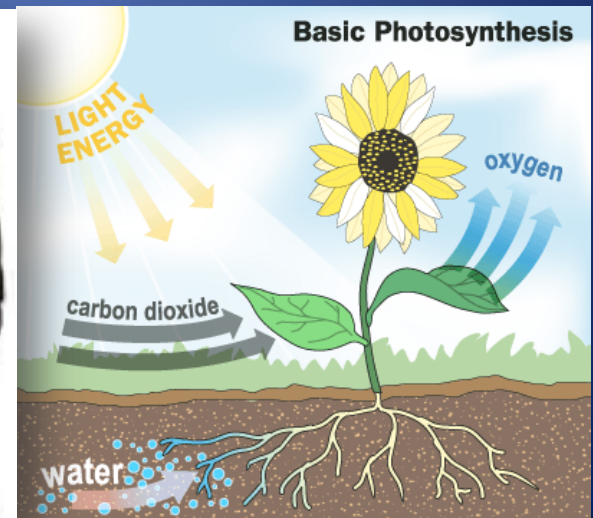
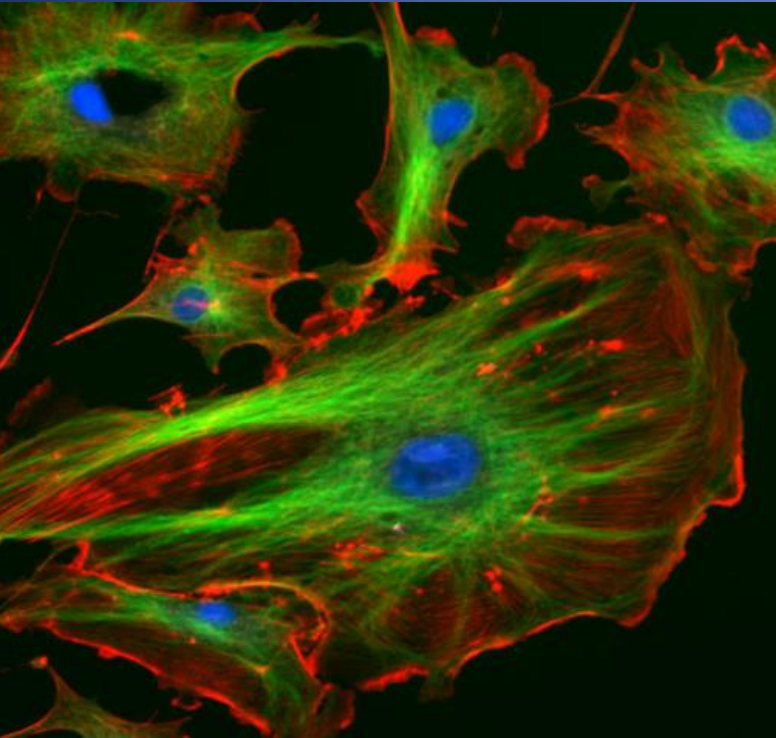


The Six Characteristics of Life



1. Living things have Cells

- A cell is the _____
- Cells contain all of the materials necessary for life to exist



- Some organisms are...

➤ _____
(only one cell) → like **bacteria**

➤ _____
(many cells) → like **humans**
(**>100 trillion cells in fact**)

❖ Human cells have _____

– like for nerves or skin

2. Living Things Sense and Respond to Change

- Living things respond to a _____
 - **A stimulus is...**
anything that _____
-

- A stimulus can include:

- _____ (good or bad)
- _____
- _____
- _____ (touching a hot stove)
- Light or darkness (**plants respond**)
- _____ (what would you do if you were about to fall?)



2. Living Things Sense and Respond to Change

Homeostasis

When _____ responds to changes in order to keep its _____

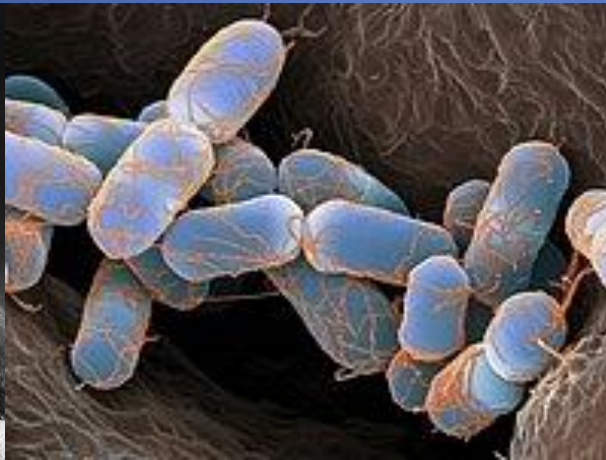


What happens when
our bodies get
too
cold or hot?



3. Living Things Reproduce

Living things must reproduce to make sure their species survives



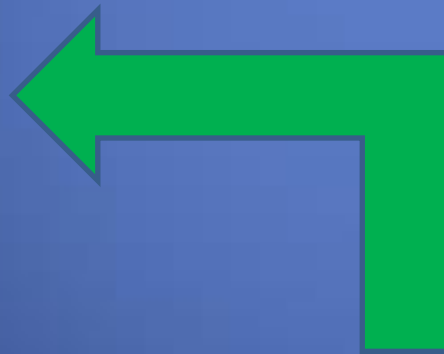
3 Types of Reproduction:

1. _____
2. _____
3. _____



Sexual VS Asexual Reproduction

- SEXUAL = _____ of genetic material (_____) from _____ **parents**



Asexual = an exact _____ of the genetic material (_____) from _____ **parent**

Asexual Reproduction

(A= NOT)

Examples:

- _____



- _____



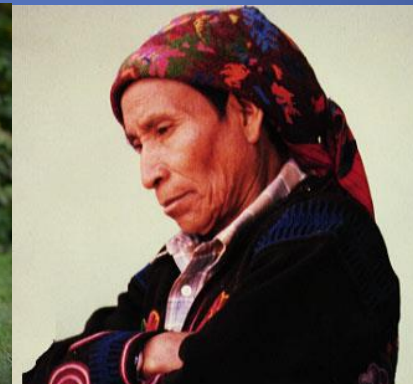
Sexual Reproduction

- Two parents combine their DNA to produce a new offspring
 - ❖ _____ = male sex cell
 - ❖ _____ = female sex cell
- This mix of DNA creates an organism with the genetic _____ of both parents



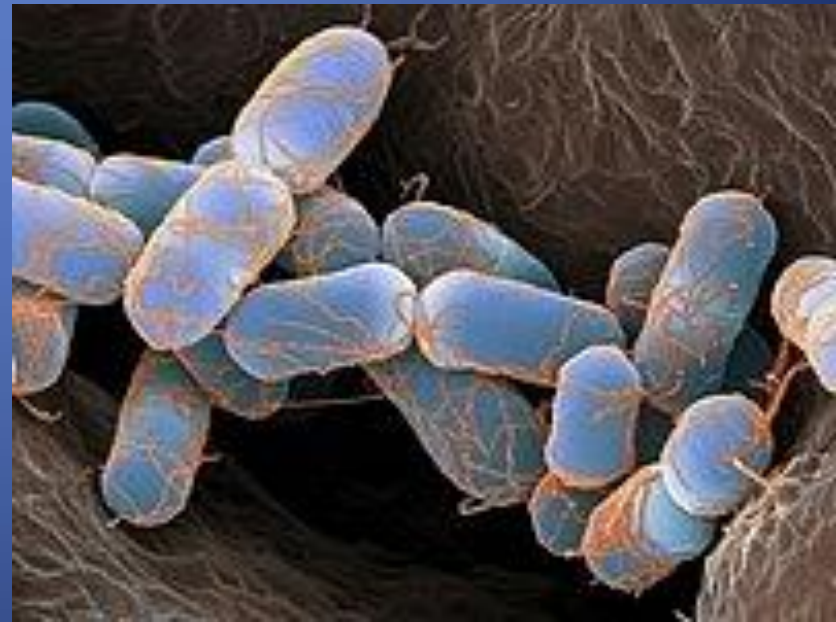
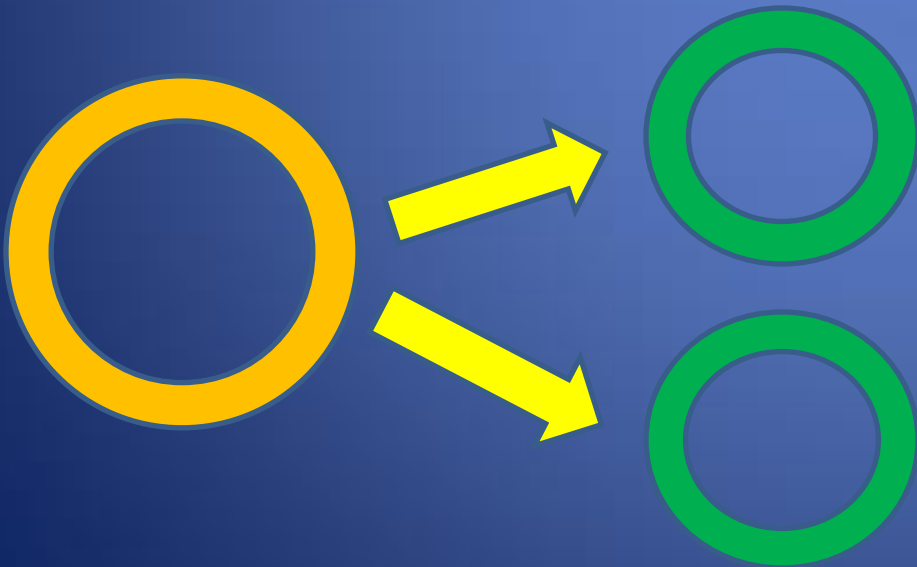
Sexual Reproduction

Sexual
reproduction
helps make _____
_____ look very
different
(compare to **Asexual**)



Binary Fission

- The simplest form of reproduction which occurs in _____ (aka – **bacteria**)
- Binary fission involves _____ a circle of _____ and dividing into **two copies with** _____
- A form of _____ reproduction



4. Living things have DNA

- Living things need **DNA** (Deoxyribonucleic acid) because it _____ **all the** _____ **and** _____ **of an organism**
- **DNA is a special molecule** that contains the _____ (a macromolecule)



Copies of DNA are passed down from the parent to the next _____.

Adopting a parent's features is called...

5. Living things Use Energy



ENERGY

- Living things use energy to:
 - ✓ _____ and _____ food
 - ✓ _____
 - ✓ Move things _____ of the cell
 - ✓ And move, grow, reproduce and other things
- All of these activities involve _____

- _____ is the _____ chemical activities in an organism

5. Living things Use Energy

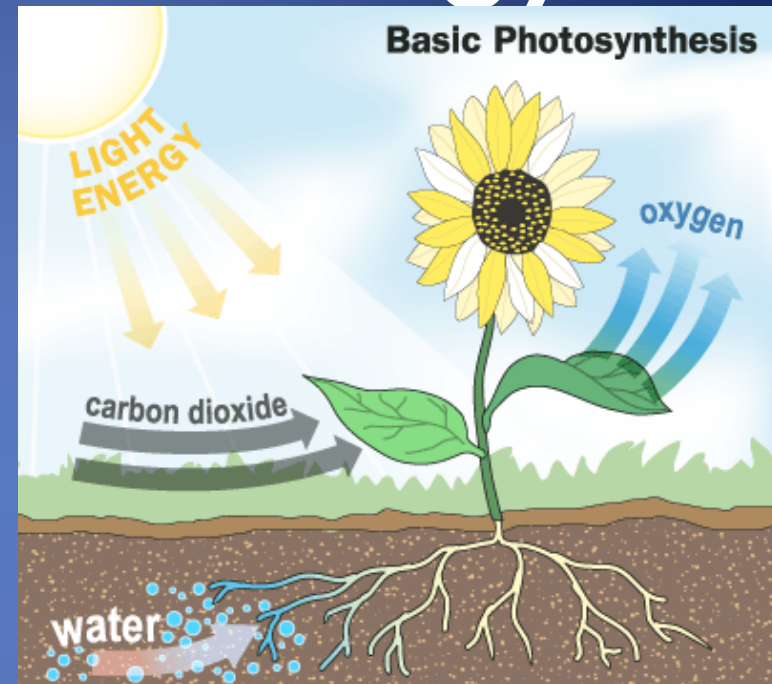
_____ are plants or bacteria that can make (produce) their own _____ using the _____ in a process called _____

Any other organism is either a

_____ (like a wolf)

or a

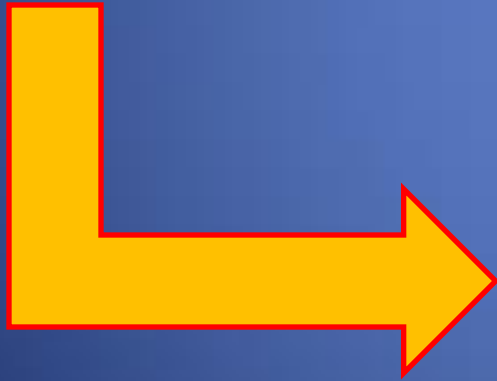
_____ (like mushroom)



6. Living Things Grow and Develop

Development = living things change and _____ as they grow over _____

Organisms pass through different _____ as they grow



_____ celled organisms = grow _____

_____ -celled organisms = grow in _____ of cells

6. Living Things Grow and Develop

_____ is when organisms have a _____ change of _____

Examples: - Tadpole → _____
- Caterpillar → _____

