

11/11/10 11:29 AM

Opener

What is Life?

Characteristics of Life.

- Water

- Life Span

- Move

- Gasses (exchange)

- Reproduce

- Food (energy)

- Environment

- Growth

- Development

- Respond to

- Stimulus

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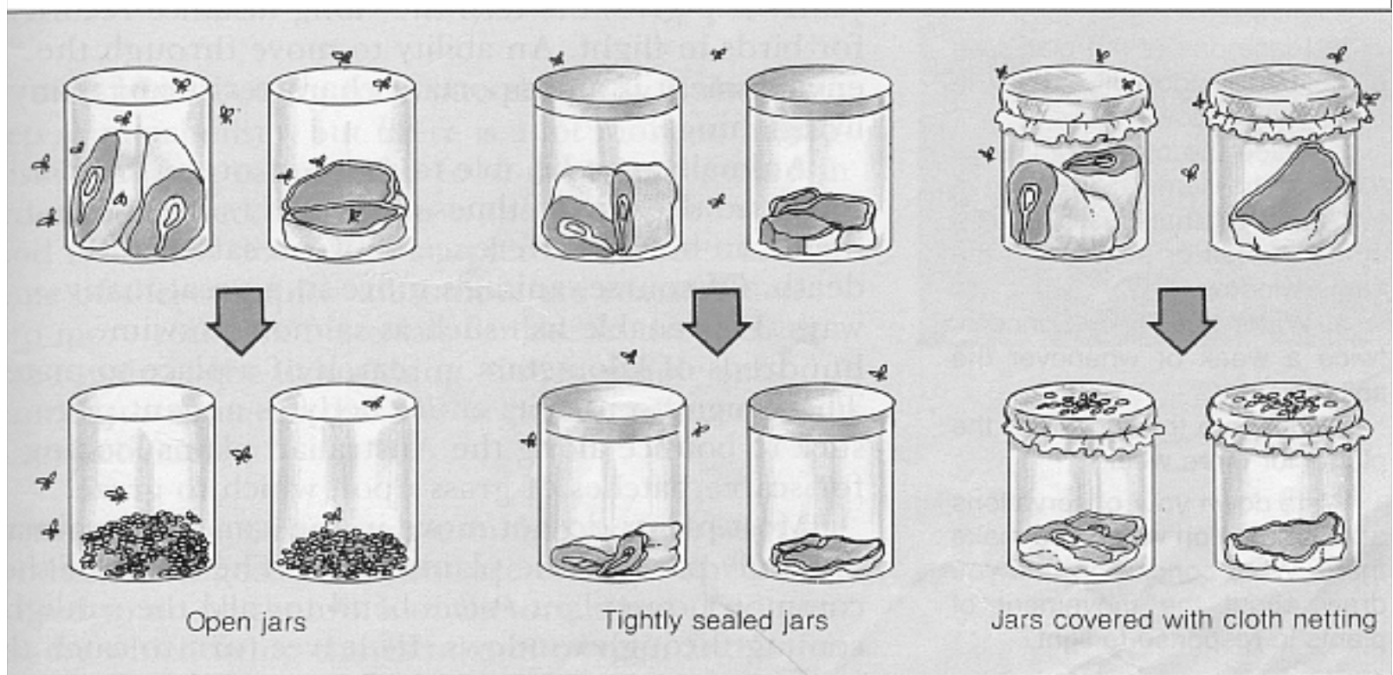
Living	Non-Living	?
Spider	rain	tornado
Frog	eggs	web
mushrooms	rocking horse	banana
cactus	teddy bear	corn
trees + leaves	icicles	onion
horse	bike	sun
potatoes		robot
jellyfish		fire
baby		yogurt
peas		

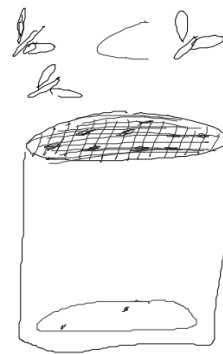
11/16/10 11:25 AM

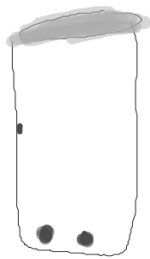
Green Pea

Is The Pea Alive?

- hard as a rock
- not aist
- Round
- Small
- green
- no smell
- bounces
- Smooth but wavy.
- line in the middle
- edible
- white
- crunchy









12/7/10 9:17 AM

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List the 4 parts of the
Cell Theory.

The Cell Theory states:

All living organisms are composed of cells.

They may be ^{one cell} unicellular or ^{more than 1 cell} multicellular. 

Cells arise from pre-existing cells. (Life comes from Life)

The cell is the basic unit of life.

The modern version of the Cell Theory includes the ideas that:

Energy flow occurs within cells.

Heredity information (DNA) is passed on from cell to cell.

All cells have the same basic chemical composition.

How are Organisms Structured To ensure efficiency and survival?

Organism - a Living Thing

Structured- How something is built/put
together

efficiency-working with little waste

Cell Types

Prokaryotic

Cells without a membranes around the inner structures

ex) Bacteria

Eukaryotic

Cells with a membrane around the inner structures

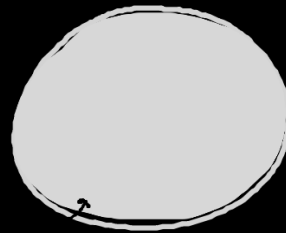
ex) you, Animals, Plants, Fungus
Protists

Cell Organization and Structure

Cell Membrane

- **a protective layer around cells**
- **regulates interactions between the cell and its environment**

Cytoplasm



- **a gelatinlike substance that fills the cells and is constantly flowing**
- **most chemical reactions within a cell take place in the cytoplasm**

12/8/10 1:05 PM

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**What is The outer Layer of a cell
called ?**

what is its function ?

Organelles (Little Organ)

- **structures within the eukaryotic cells**
- **these structures aid in the processes that keep the cell alive.**

Nucleus

- **Directs cell activities**
- **Contains DNA, the cells instruction guide**
(Blue Prints)

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Mitochondria

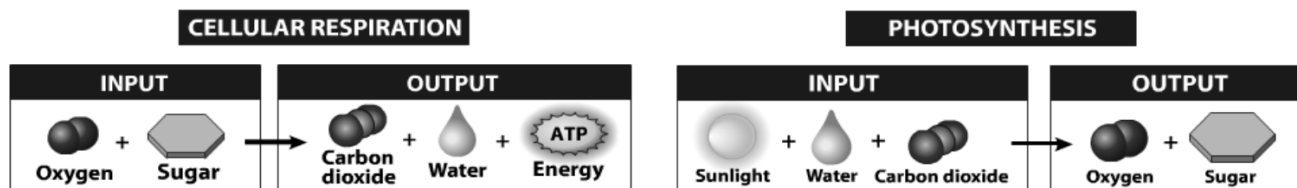
- release energy from the breakdown of food
- this energy is in the form of ATP

Chemical Energy

A handwritten arrow originates from the words 'Chemical Energy' and points upwards and to the left, ending directly beneath the underlined text 'ATP' in the bullet point above.

Cellular Respiration

Cellular Respiration & Photosynthesis



12/16/10 9:38 AM

