

Characteristics of Life IR

<p>CONTAIN ONE OR MORE CELLS</p>	<ul style="list-style-type: none"> - ALL Living things are <u>organized</u> - Smallest unit of organization = <u>cell</u> - <u>Cell</u> = collect of living matter enclosed by plasma membrane. - perform all functions of life. - <u>unicellular</u> = 1 cell organism (bacteria/protist) - <u>multicellular</u> = more than one cell organisms
<p>REPRODUCTION</p>	<ul style="list-style-type: none"> - Production of offspring - must replace selves for life to continue. - essential for continuation of species (not individuals) - <u>species</u> - similar organisms that can produce offspring - 2 kinds = ① <u>sexual</u> → requires sperm/egg (don't always have 'sex') <li style="padding-left: 20px;">② <u>Asexual</u> → reproduce w/o aid from another divide self in two.
<p>GROWTH & DEVELOPMENT</p>	<ul style="list-style-type: none"> - Organisms start lives as single cells - over time grow/take characteristics of species - <u>Growth</u> = increase in amount of living material + formation of new structures. (grow @ different rates. (internal)) - <u>Development</u> = All changes that take place during life of organism.
<p>OBTAIN & USE ENERGY</p>	<ul style="list-style-type: none"> - <u>Energy</u> = ability to make things change - powers life processes <li style="padding-left: 20px;">* provides ability to maintain balance, grow, reproduce, carry out life functions - obtain Energy from foods they eat / others produce food - <u>Heterotrophs</u> - organism gets energy from food they eat - <u>Autotroph</u> - organisms that use energy from sun to make food
<p>RESPOND TO THE ENVIRONMENT/MAINTAIN HOMEOSTASIS</p>	<ul style="list-style-type: none"> - External environmental factors (weather, air, water, temp) act as stimuli → cause response from living things - need to respond to changes to stay alive/healthy - responds to <u>internal</u> environment <li style="padding-left: 20px;">- examples → level of water, nutrients, minerals in body, body temp., hormone levels → makes adjustments when needed. - <u>Regulation</u> of organisms internal environment to maintain conditions suitable for life = <u>Homeostasis</u>

(Keeping BALANCE)

↳ happens despite external changes in environment