

Biosphere: Everywhere on Earth where life exists. Includes all the living things and places they are found. Ex. Land, oceans, fresh water estuary's, portions of the atmosphere, etc.

Biodiversity: Earth is home to an incredible diversity of life. Most species live near the equator.

Variety of species in a particular area or across the biosphere. Biodiversity is the variety of life on earth.

Species: A particular type of living thing. Ex. Human, lions, ants, sharks

Members of a species reproduce by interbreeding within their own species.

Organism: Any individual living thing

Characteristics of all living things	Details
1. Cells- made of one or more cells.	All organisms are made up of cells, from single-celled organisms (unicellular) to multicellular organisms
2. Need for energy - <u>metabolism</u> - all of the chemical properties going on in your body.	All organisms need chemical energy to carry out their functions including metabolism, which is all of the all of the chemical processes that build up or break down materials
3. Respond to environment	All organisms must respond to stimuli to survive, ex. Cold you shiver, hot you sweat...
4. Reproduction- all living things have DNA that they pass on to offspring.	Organisms must have the ability to reproduce in order for a species to survive. When organisms reproduce, they pass on their genetic information (DNA) to their offspring

