

Biology:

The study of living organisms.



Ecology:

The branch of biology that deals with the relations of organisms to one another and to their physical surroundings.



Design

Design:

A plan or an object created to solve a problem or to serve a practical purpose.



BioDesign:

A new field that uses ecological understanding to create better design solutions.

Biomaterials



Biomaterials:

Materials that are either grown by organisms or formed through laboratory processes using a combination of grown starter ingredients.

SCOBY



SCOBY:

Symbiotic Culture Of Bacteria and Yeast. Makes kombucha from sweet tea.



Polymer

Polymer:

a chemical compound made by combining simple molecules (monomers) in a repeating pattern.



Mycelium

Mycelium:

The mass of filaments that make up most of the body of a fungus.

Bioplastic



Bioplastic:

A type of biomaterial that can be molded into shape when first being made and dries into a rigid or pliable material.



Decompose:

to break down into smaller, simpler pieces/molecules.



Compost:

intentional decomposing of organic matter into simpler molecules that can be used as plant nutrients. Can be the act (I'm composting this), the place (I'm taking this out to the compost) or the name for the material resulting from composting (I'm going to shovel compost into the garden).



Biodegradable:

Capable of being decomposed by
bacteria or other living organ-
isms

Compost:

Organic material that has been broken down into a soil-like substance. It is rich in nutrients and can be used as a fertilizer. Compost is made from a variety of organic materials, including food scraps, yard waste, and manure. The process of creating compost is called composting, and it involves the decomposition of organic matter by microorganisms. Composting is a natural process that can be done in a variety of ways, including in a compost bin, a compost pile, or a compost tumbler. Composting is a sustainable practice that can help reduce waste and improve soil health.

Adaptation



Adaptation:

A process of change in which something becomes better suited to its environment.

Natural Selection



Natural Selection:

A theory developed by Charles Darwin that explains how organisms that are better adapted to live in their environments survive and produce offspring, creating a slow change in a species over time.

Organism 

Organism:
a living thing

Evolution 

Evolution:
The gradual development and
increasing diversity of species
over time



Species

Species:

A group of similar organisms capable of exchanging genes or interbreeding.

Iteration



Iteration:

A version of a design or artwork.

Prototype



Prototype:

A first model of something on which you base later designs. It's a first try or a first draft.



Biomimicry

Biomimicry:

the design and production of materials, structures, and systems that are modeled on biological entities and processes.

Critique



Critique:

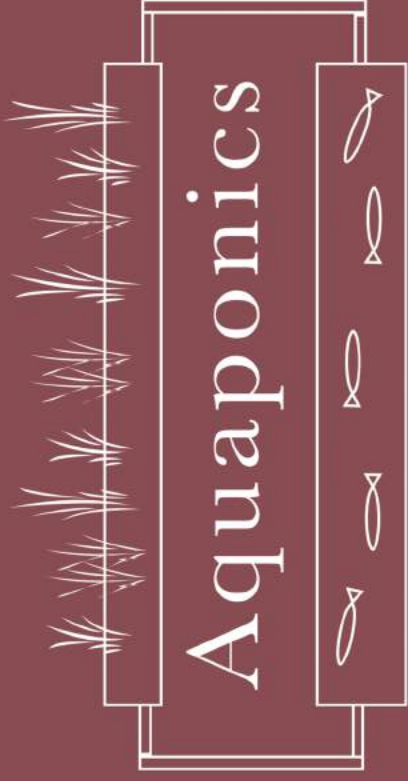
The process of evaluating and giving feedback about others' ideas and artworks. Can be a verb (“we are going to critique now”) or a noun (“we are having a critique today in class.”)

Hydroponics



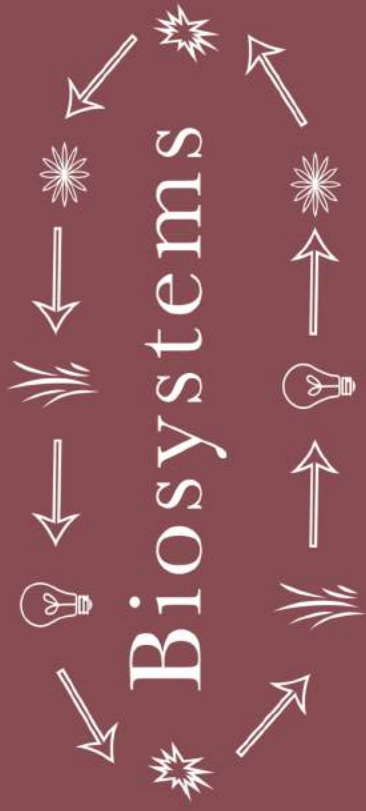
Hydroponics:

A soil-less method of plant cultivation using water supplemented with nutrients.



Aquaponics:

A system that combines aquaculture and hydroponics that uses cyclical water flows to mediate nutrient cycling between aquatic animals and plants grown in soil-less grow beds.



Biosystems:

Systems of human design based on systems found in or inspired by the natural world.

Aquaculture



Aquaculture:

The culturing (growing) of aquatic organisms, such as fish or shellfish for human consumption.

HIERARCHY

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Hierarchy:

the arrangement of elements in a way that implies importance. In other words, visual hierarchy influences the order in which the human eye perceives what it sees.

Scale



Scale:

the size of an object in relation to another.

Composition



Composition:

the arrangement of different elements in an artwork, or, putting together the “ingredients” of an artwork.