

Connect Instructions

Account Creation

What do you need?

- First name
- Last name
- Password
- Email (optional)

Installation

What do you need?

- 3D viewer software
 - Firestorm (recommended)
 - Kokua

Important Steps (for Firestorm)

- Download the software (select the proper Operating System)
- Install Firestorm
- Add the ALIVE 3D World in the list of the available destinations
- Select the "ALIVE" grid and log in with "First name Last Name" and password

Basic Controls

Navigation

Minimap

Double Click to the required location to **teleport**

World Map

Larger overview,
zoom in/out
to find more regions
nearby

Ctrl + I to open Inventory

Communication

What can you do?

- Add friends
 - Send them a private instant message (IM)
 - Request to teleport to them (Request Teleport)
 - Ask them to teleport to you (Offer Teleport)
 - Create a marker to find a friend (Track)
- Participate in conversations
- · Configure Gestures

You can also direct your students to the "alive-voice" channel in the Discord Server



The ALIVE Virtual World

The HUD Object

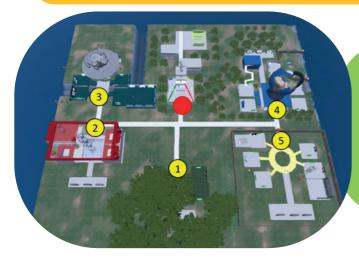


That is all. Explore and have fun!

1) Continue

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HUD Object also gives access to the **TERMS JOURNAL**



- Alive Tower
- World of Plants
- Microbiology
- World of Living Animals
- Living Environment
- 5. Human Body



The ALIVE Virtual World

Living Labs

Some of the topics include, more complex activities, where you need to perform experiments, observations or other tasks.



General Assessment
Activities

At the end of each Course you will find three assessment activities based on all topics you have studied. Suggest them to use the **TERMS JOURNAL!**

Classrooms and Auditoriums

- Near the **landing area** of the ALIVE Tower
- Learning sessions between teachers and students.

Course Content

- Photosynthesis
- · Plant's respiration
- Movement of water in plants and nutrition of plants
- Reproduction of plants

Keywords

Photosynthesis Guttation

Mitochondria Autotrophy

Krebs Cycle Eterotrophy

Water Regime Mixotrophy

Osmosis Reproduction

Root Pollination

Xylem Fertilization

Phloem Seed
Transpiration Fruit



Course Content

- · Osmosis, diffusion, mitosis, meiosis
- Influence of microorganisms on human life and the environment (viruses and bacteria)
- Basics of genetics
- Cells as a basic building unit

Variability

OSITIOSIS	Gene	Multicellulai
Diffusion	Genome	Specialization
Endocytosis	Genotype	Plant Tissue
Exocytosis	Phenotype	Meristematic
Mitosis	Alelle	Permanent
Prophase	Homozygote	Dermal
Metaphase	Heterozygote	Vascular
Anaphase	Chromosome	Ground
Telophase	Nucleic Acids	Animal Tissue
Meiosis	Crossbreeding	Epithelial
Microorganisms	Prokaryotic Cell	Connective
Bacteria	Eukaryotic Cell	Muscular
Fungi	Cell Wall	Nervous
Viruses	Cytoplasmi	Cell Division
Heredity	Organelles	

Unicellular

Keywords

Course Content

- Evolution
- The importance of insects for life on Earth
- Parasites
- Reproduction in animals

Evolution Exoskeleton Para	site	Contro
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Charles Darwin Antennae Monogony

Natural Selection Spiracles Binary Fission

Adaptation Tracheal System Budding

Survival Foregut Amphigony

Reproduction Midgut Sexes

Ancestor Hindgut Gametes

Human-Driven Metamorphosis Hermaphrodites

Domestication Pests Fertilization

Fossil record Pollinators Oviparity

Anatomy Parasites Viviparity

Embryology Mutualism Fetus

Biogeography Commensalism

Insects Parasitism

Invertebrates Pathogen vectors

Arthropods Zoonotic disease

Keywords

Course Content

- Biodiversity
- Climate change its impact on ecosystems
- Water cycle and water movements
- Ecological pyramid
- Natural Resources and Sustainability

Biodiversity	Reproduction	Tides
Ecosystem	Extinction	Gravitation
Biocenoses	Biomes	Food chain
Species	Climate	Food pyramid
Genetic	Weather	Climax
Pollution	Global Dimming	Natural resource
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Keywords

Acid rain	Light Pollution	Non-renewable
Eutrophication	Water Pollution	Natural Gas
Overpopulation	Air Pollution	Petroleum
Mass extinction	States of matter	Nuclear energy
Abiotic	Melting	Renewable
Biotic	Solidification	Solar energy
Biotope	Evaporation	Wind energy
Ecological niche	Condensation	Biomasses
Predator	Sublimation	Geothermal
Prev	Dew Point	

Living Environment

Course Content

- Circulatory system + Blood types
- Nervous system
- Respiration system
- How can nutrition influence the functioning of organisms?
- Defense functions of the organism (How does immune system work?)

Blood Central Nervous Proteins

Pulp Neurons Fats

Vessels Spinal cord Sugars

Heart Brain Dietary fiber

Circulatory system Reflex Vitamins

Arteries Reflex arc Salts

Aorta Breathing Drinking regime

Veins Oxygen Immunity

Capillary Carbon Dioxide Antigen

Lympathic vessels Pulmonary Resp. Allergy

Vestibule Tissue Respiration Immunization

Ventricle Upper Airways

Erythrocytes Lower Airways

Lekoocytes Lungs

Trombocytes Defensive Reflex

Peripheral Nervous Food evaluation

Keywords