Cheatography

Science Exam Grade 9 Cheat Sheet by Nox via cheatography.com/83564/cs/19798/

Genetics

- Zacharias Janssen invented the first optical compound microscope in 1595

 In 1665 Robert Hooke used a light microscope to look at non living cork cells and therefore coined the term cells

- Anton van Leeuwenhoek made microscopes w/ 10x power and observed the first living organisms which he called animacules.

Cell Theory an Shit

- Properties of cells 1) Life is the most basic property of cells 2)Cells are the smallest units of life 3) Cells are highly complex and organized.

- **Cell Theory** 1) All organisms are made of one or more cells 2) Cell is the basic unit of life 3) Cells can only arise from a preexisting cell. (This theory was created in the 1800s by three German scientists.

Organisms

Unicellular Organisms have just one cell such as amoebas but have problems functioning when they get too big and they don't have a nervous system nor muscles. Multicellularhave more than one cell type and each cell type has a different and important role in your body.

Prokaryotes - do not have a true Nucleus Eukaryotes - Have true nuclei



By Nox cheatography.com/nox/

Cloning

Somatic Cell Nucleus Transfer	Gene Cloning
Remove the nucleus of a body cell (somatic cell) and place it into an egg cell which has had its	Isolate the gene of interest and Make copies of the gene using a smaller organism (bacteria
nucleus removed	or yeast)
Stimulate the modified egg cell with its new nucleus to divide and develop into a new individual	Transfer the gene into another organism
Mitocie ve Mojocie	

Mitosis vs Meiosis	
Meiosis	Mitosis
Interphase I	Interphase
Prophase I	Prophase
Metaphase I	Metaphase
Anaphase I	Anaphase
Telophase & Cytoki- nesis I	Telpohase & Cytokinesis

Repeat all steps again except for Interphase where the DNA is duplicated

Deoxyribonucleic acid = DNA

Humans have 23 chromosomes (46 in total) Karyotype is a DNA chart with Homologous pairs (1 from mum 1 from dad)

A chromosome is made up of two chromatid

DNA is made of 4 base compounds (ACTG)

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Flower Reproduction

Female Flower Parts	Male Flower Parts
Pistil	Stamen
Stigma	Anther
Style	Filament Pollen
Ovary	
Ovules	

Matter is Anything that Takes up Space

Mass is the amount of matter in something

Volume is the amount of space taken up by something

Density is the mass of an object that takes up a certain volume. It is calculated by dividing the mass of an object by its volume

Everything's a Chemical

Everything in the world that isn't energy is a chemical or contains chemicals

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