

## Atmosphere/Weather Core 1

Altitude	Stratosphere	Water vapor	Exosphere
Atmosphere	Mesosphere	Weather	Ionosphere
Composition	Thermosphere	Air pressure	Pause
Properties	Troposphere	Evaporation	Humidity
Condensation	Dew point	Ground water	Weather
Meteorologist	Pattern	Water cycle	Precipitation
Rum-off	Water vapor	Sling Psychrometer	Cirrus
Alto	Cirro	Cumulo	radar
Cumulus	Nimbo	Nimbus	Stratus
temperature	barometer	pressure	Weather pattern
Air mass	Front	Pressure system	Stationary front
Cold front	Warm front	Occluded front	Jet stream
High pressure	Low pressure	Wind	Coriolis effect
Frontal boundary	Density	Polar air mass	Maritime air mass
Tropical air mass	Continental air mass	Storm Storm surge	Thunderstorm
Hurricane	Lightning	Tornado	Thunder

## Cells Core 1

Protists	Chloroplast	Cell Wall	Algae (plant-like)
Volvox	Pseudopods	Organelle	Protozoa (animal-like)
Euglena	Flagellum	Heterotrophs	Phagocytosis
Paramecium	Cell Theory	Autotrophs	Photosynthesis
Amoeba	Nucleus	Unicellular	Cellular Respiration
Cilia	Cell Membrane	Multicellular	Eukaryote
Colony	Cytoplasm	Diffusion/Osmosis	Prokaryote
Cell*	Nucleus	Osmosis	Endoplasmic Reticulum
Organelles	Golgi Body	Nuclear Membrane	Diffusion
Cell Wall*	Mitochondria	Nucleolus	Selective permeability
Cytoplasm	Chloroplast*	Ribosome	*Different in plant vs. animal
Vacuoles*	Lysosome	Chromosome	Cell Membrane
Protein	Chromatin	Organelles	Organs
Homeostasis	Organ system	Hierarchical	Specialized
Cells	Tissue	Organism	

Life processes (digestion, ingestion, cellular respiration, reproduction, regulation, transport, excretion, and photosynthesis—producers only)

## Heredity and Genetics Core 1

Alleles	Budding	Binary Fission	Asexual Reproduction
Chromatin	Dominant Allele	Egg Cell	Fertilization
Gamete	Gene	Recessive Allele	Sexual Reproduction
Sperm Cell	Meiosis	Mitosis	Haploid
Cell Cycle	Anaphase	Gametes (sex cells)	Diploid
Mitosis	Interphase	Telophase	Prophase
Meiosis	Chromosomes	Metaphase	Somatic cells (body)
Mutations	Genotype	Phenotype	Purebred/Homozygous
Dependent Event	Dihybrid Cross	Dominant Allele	Hybrid/Heterozygous
Punnett Squares	Monohybrid Cross	Probability	Environmental Factors
Independent Event	Cancer	Genetic Disorder	Cystic Fibrosis
Behavioral Factors	Down Syndrome	Hemophilia	Biological Inheritance
Pedigree Chart	Sickle Cell		

## Human Body—Core 1

### Digestive—

Mouth  
Stomach  
Small intestine  
Pancreas  
Anus  
Rectum  
Liver  
Esophagus  
Large intestine  
Peristalsis  
Saliva  
Absorption  
Metabolism  
chemical digestion  
mechanical digestion  
Bile

### Circulatory—

Heart  
Artery  
Capillary  
Vein

Homeostasis  
Red blood cells  
White blood cells  
Platelets  
Plasma

### Respiratory—

Trachea (windpipe)  
Pharynx (throat)  
Lungs  
Vocal cords  
Nasal passage  
Larynx (voice box)  
Epiglottis  
Diaphragm  
Bronchi  
Alveoli  
Pneumonia  
Chronic bronchitis  
Emphysema  
Homeostasis  
Cellular Respiration

### Excretory—

Kidney  
Ureter  
Urinary bladder  
Aorta  
Urethra  
Liver  
Skin  
Homeostasis

### Reproductive—

Egg  
Sperm  
Embryo  
Fetus  
Fallopian tubes  
Vas deferens  
Fertilization  
Ovaries  
Testes  
Uterus  
Menstrual cycle

## Force and Motion Core 1

Direction	Motion	Position	Speed
Balanced	Force	friction	Gravity
Inertia	Unbalanced	Velocity	frame of reference
Direction	motion	position	speed
velocity	reference point	acceleration	constant speed
distance	slope	F=MA	Action/reaction
Energy	System	Circuit Force	Force
Kinetic Energy	model	Current	Law of Conservation of Energy
Potential Energy	Electrical Energy	Efficiency	Energy Transfer
Mechanical Energy	Electricity	Lever	Mechanical advantage
Pulley	Screw	Wedge	Inclined plane
Wheel and axle	Work		

