Biotic and Abiotic Factors

Ecology

Levels of Ecology:

Organism

Population

Community

Ecosystem

Biosphere

Consumers

Producers

Types of Consumers

Scavenger

Food Chains

Food Webs

Energy Pyramid

Limiting Factors

Carrying Capacity

Predation

Symbiosis

Altitude

Air Pressure

Layers of the Atmosphere

Particle Density and Atmospheric Heating

Atmospheric Heating

Types of Atmospheric Heating:

Radiation

Conduction

Convection

Greenhouse Effect

Radiation Balance

Global Warming

Wind

Global Winds

Local Winds

Pressure Belts

Convection Cells

Coriolis Effect

Types of Wind

Air Pollution

Acid Precipitation

Ozone

Ozone Holes

Year

Revolution

Period of Revolution

Day

Rotation

Period of Rotation

Seasons

Latitude

Solstice

Equinox

Lunar Cycles

Lunar Phases

Solar and Lunar Eclipses

Tides

Sun

Moon

Tides

Tidal Range

Timing of the Tides

Spring and Neap Tides

Energy

Kinetic Energy

Potential Energy

Types of Energy

Nuclear Energy

Energy Conversions

Conservation of Energy

Friction

Conservation of Mechanical Energy

Law of Conservation of Energy

Energy Resources:

Renewable: solar, wind, hydropower, geothermal, biomass

Non-renewable: fossil fuels, nuclear

Land Biomes

Climate and Species

Temperate Deciduous Forest

Taiga

Tropical Rain Forest

Canopy

Temperate Grassland

Savanna

Desert

Tundra

Marine Ecosystems

Marine Biomes

Zooplankton

Intertidal Zone

Neritic Zone

Oceanic Zone

Benthic Zone

Coral Reefs

Estuary

Freshwater Ecosystems: rivers…some lakes

Weather

Water Cycle

Humidity

Relative Humidity

Measuring Relative Humidity

Dew Point

Formation of Clouds and Precipitation

Types of Clouds

Types of Precipitation

Air Masses

Types of Fronts

Severe Weather

Thunderstorms

Lightning and Thunder

Tornado

Formation of a Hurricane

Forecasting the Weather

Barometer

Anemometer

Atmospheric Pressure

Station Model

Isobar

Astronomical Unit (AU)

Inner Planets

Outer Planets

Prograde and Retrograde Rotation

Moons

Satellites

Moon Formation

Moons of Earth and Other Planets

Comets

Asteroid Belt