***Fall Benchmark 2 Review Topics***

**THE LIVING WORLD TOPICS**

CARBON CYCLE

HUMAN IMPACT ON CARBON CYCLE

FOOD WEBS- LABEL EACH TROPHIC LEVEL

EXAMPLE OF BIOTIC AND ABIOTIC INTERACTIONS

% CHANGE

EXAMPLES OF ECOSYSTEM SERVICES

pH SCALE CALCULATIONS

NITROGEN CYCLE

HUMAN IMPACT ON NITROGEN CYCLE

HALF LIFE

BASIC CHARACTERISTICS AND LOCATION OF EACH TERRESTRIAL BIOME

ECOLOGICAL EFFICIENCY WITH ENERGY PYRAMID

SPECIES, GENETIC, ECOSYSTEM, AND FUNCTIONAL DIVERSITY DEFINITIONS

GROSS AND NET PRIMARY PRODUCTIVITY

HYDROLOGIC CYCLE

INDICATOR SPECIES

PHOSPHORUS CYCLE WITH HUMAN IMPACT

INVASIVE SPECIES

EXTERNAL COSTS OF POLLUTION

LAWS OF THERMODYNAMICS

POSITIVE VS NEGATIVE FEEDBACK LOOPS

LEVELS OF ECOLOGICAL ORGANIZATION

GENERALIST VS SPECIALIST SPECIES

KEYSTONE AND FOUNDATIONAL SPECIES

RANGE OF TOLERANCE

SUSTAINABILITY DEFINITION

POINT SOURCE VS NONPOINT SOURCE POLLUTION

TURBIDITY

OLIGOTROPHIC VS EUTROPHIC LAKES

REASONS FOR A DROP IN DISSOLVED OXYGEN

ZONES OF THE OCEAN

ZONES OF A LAKE

ZONES OF A RIVER

CORAL BLEACHING AND OCEAN ACIDIFICATION

CLIMATE CHANGE BASICS (CAUSE AND EFFECTS)

GREENHOUSE GASES

GREENHOUSE EFFECT

**POPULATION TOPICS**

PRIMARY VS SECONDARY SUCCESSION

POPULATION GROWTH CURVE TERMINOLOGY

SURVIVORSHIP CURVES

DEMOGRAPHIC TRANSITION MODEL

I=PAT

r VS. K SELECTED SPECIES

METHODS FOR ESTIMATING POPULATION SIZE

DENSITY DEPENDENT VS DENSITY INDEPENDENT LIMITING FACTORS

DOUBLING TIME AND % GROWTH RATE CALCULATIONS

REGIONS WITH GREATEST HUMAN POP GROWTH

INDICATORS OF QUALITY OF LIFE OF A COUNTRY

REASONS THE U.S. POPULATION IS INCREASING

FACTORS AFFECTING TFR

BIOACCUMULATION AND BIOMAGNIFICATION

ENDANGERED SPECIES ACT AND CITES

TYPES OF EXTINCTION

**EARTH SYSTEMS TOPICS**

GOLD MINING

TECTONIC PLATE MOVEMENT

VOLCANOES, EARTHQUAKES, TSUNAMIS

TYPES OF ROCKS AND ROCK CYCLE