ISTEP Key Science Vocabulary and Concepts

Nature of Science

Scientific Method (steps)

Prediction

Hypothesis

Hypothesis Statement

Testable Question

Independent Variable

Dependent Variable

Control Variable

Quantitative Data

Qualitative Data

X axis

Y axis

Ecology

Ecology

Ecosystem

Ecologist

Climate

Predator

Prey

Producer

Consumer

Decomposer

Food Chain

Food Web

Energy

Energy Transfer

Photosynthesis (process and equation)

Chloroplast

Chlorophyll

Stomata

Competitive

Mutually Beneficial

Symnbiosis

Parasitism

Mutualism

Commensalism

Biome

Tundra

Grassland

Wetland

Deciduous Forest

Rainforest

Desert

Matter

Matter

Mass

Volume

States of Matter (freezing, boiling, condensation, evaporation, melting)

Kinetic energy in particles (gained or lost)

Solid

Liquid

Gas

Energy

Kinetic Energy

Potential Energy

Gravitational Potential Energy

Chemical Energy

Law of Conservation of Energy

Energy Transfer

Work

Machine

Simple Machine

Lever

Screw

Pulley

Inclined Plane

Wheel and Axle

Wedge

Compound Machine

Earth and Space

Terrestrial Planets

Gas Giant Planets

Order and characteristics of the Solar System

Solar Eclipse

Lunar Eclipse

Earth’s axis and relationship to seasons

Tides

Hemispheres

Revolution

Rotation

Moon Phases

New Moon

Waxing Crescent

First Quarter

Waxing Gibbous

Full Moon

Waning Gibbous

Third Quarter

Waning Crescent