



# Whiteriver Unified School District Essential Standards Quarterly Focus

## What is it we expect students to learn?

Grade: 10<sup>th</sup>

Subject: Biology

### First Quarter

HS.L1U1.20

Ask questions and/or make predictions based on observations and evidence to demonstrate how cellular organization, structure, and function allow organisms to maintain homeostasis.

HS.L2U1.21

Obtain, evaluate, and communicate data showing the relationship of photosynthesis and cellular respiration; flow of energy and cycling of matter.

### Second Quarter

HS.L1U1.22

Construct an explanation for how cellular division (mitosis) is the process by which organisms grow and maintain complex, interconnected systems.

HS.L3U1.23

Obtain, evaluate, and communicate the ethical, social, economic and/or political implications of the detection and treatment of abnormal cell function.

### Third Quarter

HS.L3U1.24

Construct an explanation of how the process of sexual reproduction contributes to genetic variation.

HS.L3U1.25

Obtain, evaluate, and communicate information about the causes and implications of DNA mutation.

HS.L3U3.26

Engage in argument from evidence regarding the ethical, social, economic, and/or political implications of a current genetic technology.

### Fourth Quarter

HS.L4U1.28

Obtain, evaluate, and communicate evidence that describes how changes in frequency of inherited traits in a population can lead to biological diversity.

HS.L4U1.27

Gather, evaluate, and communicate multiple lines of empirical evidence to explain the mechanisms of biological evolution.



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- *Endurance- Knowledge and skills of value beyond a single date*
- *Leverage- Knowledge and skills valuable in multiple disciplines*
- *Readiness for the next level of learning- Knowledge and skills that are necessary for success in the next grade level or the next level of instruction*