

Honors Biology		
Standards	Fall Semester	
NGSS	Topics Covered	Number of Days
HS-ESS1-5	Plate tectonics and age of rocks including the evaluation of past and current movement of oceanic crust and and continental crust	2
HS-ESS1-6	Earths formation and history, applying scientific reasoning and evidence from ancient Earth materials.	2
HS-ESS2-7	Simulatneous Coeveolution of Earth's systems and life , constructing an argument of based on evidence of the endosymbiont theory which demonstates the co-evolution of life on Earth and Earth's systems.	3
HS-LS1-2	hierarchical organization of interacting systems, Developing a model that demonstrates the hierarchical organization of microscopic and macroscopic systems that provide specific function for living orgaisms.	3
HS-LS1-3, RST.11-12.1, WHST.9-12.2	Homeostasis, cite textual evidence, write informative text. Plan and conduct an experiment that provides evidance of homeostasis and create a lab report that cites textual evidence.	5
HS-LS-1-5	Create a model to illustrate how photosynthesis transforms light energy into stored chemical energy.	5
HS-LS-1-6	Construct and revise an explanation based on how carbon, hydrogen, and oxygen from sugar may combine with other elements to create large organic molecules.	5
HS-LS1-7	Create a use a model to illustrate that cellular respiration is a chemical process resulting in a net transfer of enery.	5
HS-LS2-3, MP.4	Aerobric and anerobic, model with mathematics. Construct and revise an explanation based on evidence for the cycling of matter and create mathematical models to determine the total loss and gain of energy.	3
HS-ESS1-5,HS-ESS1-6, HS-ESS2-7, HS-LS1-2,HS-LS1-3, RST.11-12.1, WHST.9-12.2, HS-LS1-5, HS-LS1-6, HS-LS1-7HS-LS2-3, MP.4	W1 Test	2
HS-LS2-5, RST.11-12.8, WHST.9-12.7	Carbon Cycle, Evaulate Data, Conduct research projects Develop a model to illustrate the role of photosynthesis, cellular respiration, and Human activity in the carbon cycle.	5
HS-ETS1-1	Analyze global challenges and create solutions. Analyze a single major global challenge and create a solution that accounts for societal needs and wants. Present your solution.	5
HS-LS1-1	Construct an explanation based on evidence for how the structure of DNA determines that structure of proteins.	5
HS-LS1-4	Cellular Division create and use a model to illustrate the role of cellular division and cellular differentiation.	5
HS-ESS1-5,HS-ESS1-6, HS-ESS2-7, HS-LS1-2,HS-LS1-3, RST.11-12.1, WHST.9-12.2, HS-LS1-5, HS-LS1-6, HS-LS1-7HS-LS2-3, MP.4, HS-LS2-5, RST.11-12.8, WHST.9-12.7, HS-EST1-1, HS-LS1-1, HS-LS1-4	W2 test and review (Standards in Red will only be assessed as needed)	2

HS-LS3-1, HS-LS3-3	Role of DNA in characteristics, probability. Create and ask questions to clarify the relationships about the role of parental DNA in coding instructions for traits passed to offspring.	14
HS-LS3-2	inheritable genetic variation. Make and defend a claim based on evidence that inheritable genetic variations may result from recombination, mutations, and replication errors during S1 of interphase.	5
HS-ESS1-5,HS-ESS1-6, HS-ESS2-7, HS-LS1-2,HS-LS1-3, RST. 11-12.1, WHST.9-12.2, HS-LS1-5, HS-LS1-6, HS-LS1-7HS-LS2-3, MP.4, HS-LS2-5, RST. 11-12.8, WHST.9-12.7, HS-EST1-1, HS-LS1-1, HS-LS1-4, HS-LS3-1, HS-LS3-3, HS-LS3-2	E1	2