Grade HSSci

2015 - 2016 school year

**[ HS.S.Y] Yearly Standards**

August

**[ HS.4S.C5.PO2] I can describe the role of organic and inorganic chemicals important to living things.**

2 Days

**[ HS.4S.C1.PO2] I can compare the form and function of prokaryotic and eukaryotic cells and their cellular parts.**

2 Days

**[ HS.4S.C1.PO4] I can analyze mechanisms of transport of materials into and out of cells.**

3 Days

**[ HS.4S.C1.PO5] I can describe the purposes and processes of cellular reproduction.**

4 Days

**[ 10.RST.01] I can cite textual evidence to support what the text says and what conclusions are being made.**

3 Days

September

**[ HS.4S.C1.PO5] I can describe the purposes and processes of cellular reproduction.**

3 Days

**[ HS.4S.C5.PO1] I can compare the processes of photosynthesis and cellular respiration in terms of energy flow, reactants, and products.**

2 Days

**[ 10.RST.01] I can cite textual evidence to support what the text says and what conclusions are being made.**

0 Days - imbedded curriculum

**[ HS.4S.C2.PO3] I can explain how genotypic differences occur and results in phenotypic variety.**

8 Days

**[ HS.4S.C4.PO2] I can explain how genotypic and phenotypic differences can result in changes that may help or hurt an organism's success in an environment.**

3 Days

October

**[ HS.4S.C2.PO4] I can describe how meiosis and fertilization maintain genetic differences.**

3 Days

**[ HS.4S.C2.PO2] I can describe the molecular basis of heredity, in viruses and living things, including DNA replication and protein synthesis.**

8 Days

**[ HS.4S.C4.PO1] I can identify the components of natural selection which can lead to speciation.**

5 Days

November

**[ HS.4S.C4.PO3] I can describe how the continuing operation of natural selection triggers a population's ability to adapt to changes in the environment and leads to biodiversity and the origin of new species.**

4 Days

**[ HS.4S.C4.PO4] I can predict how a change in an environmental factor can affect the number and diversity of species in an ecosystem.**

4 Days

**[ HS.4S.C4.PO4] I can predict how a change in an environmental factor can affect the number and diversity of species in an ecosystem.**

8 Days

**[ 10.RST.05] I can analyze relationships among concepts in a text including relationships among key terms.**

0 Days - imbedded curriculum

December

**[ HS.4S.C4.PO6] I can analyze, using a biological classification system, the degree of relatedness among various species.**

2 Days

**[ HS.4S.C3.PO1] I can identify the relationships among organisms within populations, communities, ecosystems, and biomes.**

2 Days

**[ HS.4S.C5.PO5] I can describe the levels of organization of living things from cells, through tissues, organs, organ systems, organism, populations, and communities to ecosystems**

2 Days

**[ HS.3S.C3.PO2] I can describe biotic and abiotic factors that affect human populations.**

1 Days

**[ HS.4S.C3.PO3] I can assess how the size and the rate of growth of a population are determined by birth rate, death rate, immigration, emigration, and carrying capacity of the environment.**

2 Days

**[ HS.4S.C5.PO4] I can diagram the energy flow in an ecosystem through a food chain.**

2 Days

**[ 10.RST.05] I can analyze relationships among concepts in a text including relationships among key terms.**

0 Days - imbedded curriculum

**[ HS.3S.C2.PO3] I can support a position on a science or technology issue.**

**[ 10.RST.09] I can compare and contrast the results of different scientists� experiments (and to my own using peer review).**

8 Days