**Pacing Guide 2019-2020** Resource Science—Alyssa Smith

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| **1st 9 Weeks Standards**  **Physical Science Review**  PS.M.1a1 Recognize the difference between a solution and mixture.  PS.M.1a2 Classify objects by their physical properties (e.g., weight, melting and boiling points).    PS.M.1a3 Describe how thermal energy moves (e.g., thermal energy as ice melts).  PS.M.2a Identify parts of an atom (protons, neutrons, electrons).  **Biology**  Genetics  B.H.1a.Describe that different genes code for proteins that determine different traits  B.H.2a Recognize that changing the segments of DNA molecules can alter genes.  B.H.3a Predict the possible phenotypes of an offspring when given the genotype of the parents (e.g., using a Punnett square).  B.H.4a Describe how some mutations can be helpful and some can be harmful to organisms. | **What We Did to Cover Standard** |
| **2nd 9 Weeks Standards**  **Biology**  Evolution  B.E.1a Describe how the presence or absence of traits may help some individuals in a plant or animal population survive and reproduce in their environment (e.g., natural selection).  B.E.2a Identify evolutionary changes to a given species that have allowed the species to continue to survive and reproduce.  Diversity  B.DI.1a Explain how low genetic diversity impacts population size, energy flow or the cycle of matter in a given environment (e.g., Isle Royale Wolf population).  B.DI.2a Identify how both populations will change in a predator/prey relationship, when given a model of an ecosystem that is not in balance (e.g., carrying capacity).  B.DI.3a Describe how drought, flood, volcanic eruption, habitat loss, or introduction of a new species may affect the diversity in an ecosystem. | **What We Did to Cover Standard** |
| **3rd 9 Weeks Standards**  **Biology**  Cells  B.C.1a Compare and contrast a prokaryotic cell and a eukaryotic cell.  B.C.2a Describe how the cell needs specific conditions (e.g., temperature, pH) in order to perform its essential functions (e.g., respiration, photosynthesis)  B.C.1.b Match the organelle with the process it helps to execute (e.g., chloroplast, photosynthesis). | **What We Did to Cover Standard** |
| **4th 9 Weeks Standards**  **Biology**  Cells  Continue with cells until finished  **After EOC Exams Topics**  **Physical Science**  The Universe  PS.U.1a Create a model that shows how the universe is expanding (e.g., blowing up a balloon).  PS.U.2a Classify a galaxy based on its shape (e.g., spiral, barred-spiral, elliptical, irregular).  PS.U.3a Match a star of a specific relative mass (e.g., low, medium, high) with its life cycle. | **What We Did to Cover Standard** |