***2022-2023 Biology Pace Chart - Segment 1***

***(Starting August 16, 2022)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Week*** | ***Lessons / Assignments*** | ***Due Date*** | **Percent Complete** | **Learning Goal**  **The student will be able to:** |
| **1** | 01.00 Foundations of Biology Checklist   * 1. Exploring Life | 8/19/2022 | 6 |  |
| **2** | 01.02 Chemistry of Live  **01.02A Chemistry of Life Honors** | 8/26/2022 | 13 | Describe the scientific processes used by the scientific community for expanding knowledge, compare the structure and function of various types of microscopes, describe the properties of water, summarize theories of how life began on Earth. |
| **3** | 01.03 Earth’s Early Atmosphere  01.04 Module 1 DBA | 9/2/2022 | 19 |  |
| **4** | 01.05 Module 1 Exam  02.00 Life’s Origins Checklist | 9/9/2022 | 25 |  |
|  | **Grace Period Ends** | 9/11/2022 |  | You must have the through 1.05 or be 25% complete to stay in the course beyond your grace period |
| **5** | 02.01 Properties of Water  02.02 Early Cells | 9/16/2022 | 31 | Describe the development of the cell theory, important biochemical compounds and how they are used in the processes of photosynthesis, and cellular respiration, compare and contrast prokaryotic and eukaryotic cells. |
| **6** | 02.03 Cell Structure and Function  **02.03A Cell Structure and Function Honors** | 9/23/2022 | 38 |
| **7** | 02.04 Membrane Transport  02.05 Cellular Energy | 9/30/2022 | 44 |  |
| **8** | |  |  | | --- | --- | | 02.06 Photosynthesis and Cellular Respiration  02.07 Module 2 Discussion Based Assessment |  | | 10/7/2022 | 50 |
| **9** | 02.08 Module 2 Exam  **02.08A Module 2 Exam Honors** | 10/14/2022 | 56 |
| **10** | 03.00 Cell Reproduction Checklist  03.01 Cell Division | 10/21/2022 | 63 |  |
| **11** | **03.01A Cell Division Honors**  03.02 DNA Replication | 10/28/2022 | 69 | Describe the stages of the cell cycle including the difference between mitosis and meiosis, summarize Mendel's experiments and the development of field of Genetics, describe the structure of DNA, and RNA, and the processes involved in their replication, transcription and translation, describe the impact biotechnology makes on individuals, society, and the environment. |
| **12** | 03.03 Protein Synthesis  03.04 Mutations | 11/4/2022 | 75 |  |
| **13** | 03.05 Meiosis  03.06 Mendel | 11/11/2022 | 81 |  |
| **14** | 03.07 Heredity Patterns  03.08 Biotechnology | 11/18/2022 | 88 |  |
|  | **Thanksgiving Break** | 11/21/22 to 11/25/22 |  | **NO SCHOOL, BUT YOU CAN STILL SUBMIT WORK ☺** |
| **15** | 03.09 Module 3 Discussion Based Assessment  Segment One Collaboration | 12/2/2022 | 94 | Work collaboratively with students using a combination of combination of 21st century communication technologies. |
| **16** | 03.10 Segment One Exam  **03.10A Segment One Exam Honors** | 12/9/2022 | 100 | Prepare and successfully complete the segment exam. |
|  | **Winter Break** | 12/19/22 to 1/2/23 |  | **NO SCHOOL, BUT YOU CAN STILL SUBMIT WORK ☺** |

This is the minimum pace; you are encouraged to move more quickly through the course.