

South Gibson County High School Scholars' Prep Guide 2019-2020

Course: Biology I Honors

Curriculum for the upcoming course and information of which students should be aware:

Students will investigate biological systems at the molecular and cellular level. Hands-on laboratory exercises incorporating biochemistry, cellular biology, DNA technology, genetics, evolution and ecology will be provided to assist students in their understanding of biological themes. The life sciences are designed to investigate the concepts of plant and animal characteristics. The structure and function of organisms will be analyzed, as well as, life processes and classification systems. The biological studies will also examine the interrelationships between organisms and their environment.

Honors: *In order to receive the 3 point advantage that accompanies the honors curriculum, students will be required to complete extended learning assignments and follow rubrics to include **timely participation** and **original work** such as; outside reading assessments and authoring formal written research papers.*

Areas that might be challenging for students:

We begin the course with very challenging Biochemistry that carries over from some aspects of Physical Science. The vocabulary is very extensive and memorization of content is necessary in order to complete application problems. Students must read ahead on their own to participate in classroom activities and discussions. Honors classes incorporate a formal research paper and novel assessments to meet two of the honors requirements. Formal assessments include critical thinking, application, and essay questions.

Suggestions on how students can prepare for the upcoming course:

Organization skills are imperative for Honors Biology I. Students should work on reading comprehension and juggling large amounts of content at an accelerated pace. Students must be self-motivated learners and be proactive in seeking assistance when material is challenging. Students need to practice good time management and plan on spending at least 20-30 minutes per night to review and preview materials.

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Suggested activities or resources (if applicable)

Students will have an access code for a Biology I Honors Google classroom account. They will have access to PowerPoints, study guides, project instructions, due dates and reminders for labs and assessments. We have text books in the classroom, practice notebooks, and videos to clarify content. We utilize FOCUS block for review and extra help, Kahoot practice questions and Quizziz practice questions.