

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

Course: Honors Physics

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

The goal of physics is to use a small number of basic concepts, equations and assumptions to describe the physical world. This course is designed to prepare college-bound and technological oriented students for a science and/or engineering based curriculum. In this course, students will understand basic physics principles in one and two dimensional motion, electricity, and thermodynamics and explore wave concepts.

Areas that might be challenging for students:

The study of motion is not as intuitive as most students think. Studying motion in two dimensions can be challenging. Vector concepts are covered in depth, which is a new concept to most students.

Suggestions on how students can prepare for the upcoming course:

Students should be proficient in solving one variable equations. Students should also be comfortable using the quadratic formula and basic trigonometry. Review of special right triangles will also be helpful.

Suggested activities or resources (if applicable):

Previously learned math concepts can be reviewed at [KhanAcademy.org](https://www.khanacademy.org). Vectors can also be review here as well. A review of classroom notes from physical science would be beneficial.

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