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2024-2025 SCHOOL YEAR

Introduction to Physics GVL

Monday AND Wednesday

Grades: 7th Grade, 8th Grade

Fees: \$360 per year, plus \$15 lab fee

Sections Offered: 0 Hour and 1st Hour (Monday and Wednesday) - Collett

REQUIRED MATERIALS

Textbook: God's Design for the Physical World: Machines & Motion, 4th Edition OR **RENT** from UHC

NOTE: The 3rd edition may be used if already owned. The 2nd edition contains the answer keys, so it is not recommended for a student text.

Recommended: Teacher Supplement

Additional Supplies: See course syllabus

Course Description

God's Design for the Physical World: Machines & Motion is a physical science curriculum designed to meet the academic needs of middle school students. We will incorporate various aspects of STEAM (science, technology, engineering, art, and math). The course covers topics such as: mechanical forces, simple machines, kinematics, and dynamics. Parents will be asked to help students set aside time during the week to complete reading assignments and coursework, aid students by checking answers to the end of the lesson study questions, help them in studying for tests (if needed by student), and proctor tests sent home by the teacher.

The lab component will feature exciting activities and observations on many topics such as energy transfer, forces and motion, and simple machines with the core understanding of God's intelligent design for our world. Each lesson will have at least one hands-on lab activity that will provide for additional learning experiences. Students will have opportunities to develop the skills necessary to examine various scientific concepts, acquire knowledge gained through lab work, and the use of support materials such as the text, technology, and library resources. Students will also be introduced to the lab write-up process. This class will build on the skills

learned in the 6th grade Lego lab and provide a good foundation for the high school Physical Science and Physics classes. Students can expect to work on homework 3-5 hours a week.

To be successful in this class:

The student should be able to read through a chapter a week, be prepared to answer lesson questions and complete assigned activities each week. Students will need to complete a quiz at the end of each unit and a final exam. The student should also be able to listen in class and take notes. Students should be able to use a scientific calculator to solve math problems.

0 Hour and 1st Hour (Monday and Wednesday) - Collett



Meet Carolyn Collett

Education: Bachelor's degree in Engineering and Technology Education from Virginia Tech

Certifications: SC certified Industrial Technology Education

Teaching experience: eight years in the public school setting

UHC courses taught:

- Middle School Engineering
- Middle School Intro to Physics
- High School Physical Science
- High School Engineering 1
- High School Engineering 2
- 6th grade Ecology
- Google Apps
- Lego WEDO robotics 2nd-5th grade

Began teaching at UHC in 2007

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