

COURSE DESCRIPTION EIGHTH GRADE PHYSICAL SCIENCE

Philosophy Statement: Biblical science is the study of God's creation. God has revealed Himself in two ways: through the Bible and through creation. In Creation, God's eternal power and divine nature are clearly perceived, and God has mandated that we investigate, explore, appreciate, and care for God's Creation. In this way we come to understand our Creator better in the process.

Objectives: Students will study various fields of physical science including: motion; density; pressure; buoyancy; the parts of an atom, elements, isotopes and ions; the Periodic Table; chemical properties and change; solutions; acids; bases; carbon compounds; the Solar System; galaxies. Students will participate in lab experiments, in whole group instruction, in cooperate learning groups, in individual research and presentations. Students will also conduct a science fair project involving research and experimentation, and present their projects during the school science fair in the spring.

Textbook: Focus on Physical Science (Glencoe Science)

Materials: 2 Graph Paper (Quad) Composition Notebooks

Time Allotment: 1 hr. 45 min. block, 2 days a week; +50 minute period, 1 day a week

Units of Study: Motion and Force
Structure of Matter
Chemical Interactions
Earth in Space

Areas to be Evaluated: Tests (30%)
Homework (30%)
Labs (20%)
Quizzes (10%)
Class Participation (10%)

Additional Activities: Every student will be required to complete a Science Fair project and present it at our Annual BCS Science Fair in March. Winners will go to Biola University for the ACSI Science Fair in April. In March, 8th grade students will participate in Physics Day at Knott's Berry Farm.