

Seventh Grade

Bible Curriculum: Summit *Light Bearers*

Lightbearers is a video-based curriculum designed to help students clearly understand the tenets of the Christian worldview, and how they compare to the tenets of the leading humanistic worldviews of our day. Students will learn how to apply their Christian faith to every area of life: theology, philosophy, ethics, biology, sociology, psychology, law, politics, economics, and history.

Language Arts Curriculum:

Reading *Purposeful Design* Publishing

The reading program integrates language arts and literature with lessons in literature that precede each prose selection and teach a progression of language arts skills that build, one on the other. It contains short stories, a complete chapter book, drama, poetry, and nonfiction.

Students study vocabulary and literary terms throughout the text, and they integrate writing skills.

English *BJU* Publishing

Students will focus on parts of speech, sentence structure, mechanics, usage, and writing.

Math Curriculum: *BJU Press*

Pre-Algebra

Integers: absolute value; operations; exponents; order of operations; scientific notation

Expressions: real-number properties; evaluating and simplifying expressions; translating word phrases; rounding and estimating results of operation

Equations: solving two-step equations; removal of parentheses; subsets of real numbers; irrational numbers; solving linear inequalities; applying equations and inequalities

Number Theory: prime factorization; GCD and LCM; arithmetic and geometric sequences; number bases other than 10; including hexadecimal; operations in other bases

Rational numbers: forms of; ordering fractions and decimals; decimal equivalents of fractions; conversion of repeating decimals to fractions; ratios and proportions; subsets and properties of real numbers

Operations on rational numbers: operations, evaluating and simplifying expressions; solving equations involving rationals; operations in scientific notation

Percents: solving percent equations; applying percents; scales; discount, markup, commissions, Tips, and interest; percent change

Applications: equations with variables on both sides; writing and solving equations and Inequalities

Relations and functions: coordinate plane; functions; graphing linear functions and linear inequalities; slope; direct variation
Statistics and probability: population and sample; mean, median, and mode; scatterplot; quartiles; box-and-whisker; stem-and-leaf; histograms; choosing the correct type of graph; permutations; combinations; probability

Science Curriculum: *BJU* Publications, Other Resources, and STEAM lab

Life Science

Foundations of Life Science: biblical vs. naturalistic worldview; scientific method; characteristics of life, cell theory, molecules and life; classification of life; cell structure and function, cellular respiration, photosynthesis
Heredity and the origin of life: genes and cell division, mitosis and meiosis, asexual and sexual reproduction; DNA replications, RNA transcription, protein synthesis; Mendelian genetics, genetic crosses, variations on simple genetics; genetic disorders; Gene mutations, chromosomal changes, genetic engineering, cloning, stem cell technology; biblical Creationism, nonliteral views of Creation, age of the earth, the Flood, fossils; history of evolutionary theory, mutations and evolution.
Microbiology and plant biology: archaeobacterial vs. eubacteria; bacterial structure, reproduction and importance; antibiotic resistance in bacteria; viruses; protozoan movement, nutrition, and reproduction; algal structure, nutrition and reproduction; importance of protists; structure, nutrition, and importance of fungi; plant structure; water movement, gas exchange, and photosynthesis in plants; pollination
Animal kingdom: sponges, cnidarians, flatworms, roundworms, earthworms, mollusks, echinoderms, arthropods; endotherms and ectotherms, body systems in vertebrates; fish, amphibians, metamorphosis, reptiles; birds, mammals, classification of mammals; animal behavior, external and internal fertilization, egg structure and development
Interactions in the environment: ecosystems, biomes, abiotic environment, water cycle, succession; biotic community, populations, carbon and oxygen cycles, nitrogen cycle; circadian rhythms, seasonal rhythms; food chains, food webs; ecological pyramids; organism relationships, competition, camouflage, mimicry, predation, symbiosis; natural resources
Human Body: structure and function of skin, burns; structure and function of skeletal system, fractures, joints; types of muscles, muscle physiology; homeostasis, types of blood cells, blood clotting, blood types, blood plasma; blood vessels, heart structure, flow of blood through heart, blood pressure; immune system, organ transplants; allergies, autoimmune diseases, and AIDS; excretory system; anatomy, physiology of the digestive system; nervous system, reflexes, brain anatomy, sense organs; hormones; metabolism; psychoactive drugs

Social Studies Curriculum: BJU Publications & Other Resources

Cultural Geography

Topic: Physical, political, and cultural geography

Geography: Complete survey of geographic principles and regions; map skills

History: Geographic approach to key historic events

Government: Overview of types of governments; current issues

Economics: Influence of land, climate, and resources on national economics

Religion: Stewardship of resources; status of Christianity; geography of Bible lands; comparative world religions; world missions

Culture: Eight culture regions and their influence on lifestyles, language, arts, and culture

All core skills are supported through extra-curricular activities such as PE, Science Olympiad, and Yearbook. The appreciation of literature is supported through visits to the ECA library and the public library book mobile.