

Trinity Lutheran School
High School Science

	September	October	November	December	January	February	March	April	May	June
	Quarter 1		Quarter 2			Quarter 3		Quarter 4		
Physical Science Typical Freshman	<u>Basic Chemistry</u> Elements and Chemicals Chemical Naming Nature of Chemical Reactions pH, Acids and Bases		<u>Chemical Reactions</u> The Proton in Chemistry Types of Reactions Balancing Equations			<u>Physics</u> Kinematics Acceleration and Momentum Using Physics Formulas		<u>Waves, Light Electricity</u> Nature of Waves Light and Electromagnetic Spectrum Electricity Circuits		
Biology Typical Sophomore	<u>Biochemistry & the Cell</u> Function of DNA and RNA Proteins, Fats, Carbohydrates Amino Acids & Protein folding Organelles in the Cell		<u>Ecology & Classification</u> Nitrogen Cycle Carbon Cyle Kingdom overviews Microbiology			<u>Genetics</u> Mendelian Genetics DNA and RNA Manipulating DNA Restriction Enzymes		<u>Applied Genetics</u> Crime Scene Analysis DNA Testing PCR - amplifying DNA Protein identification		
Chemistry	<u>Chemical Reactions</u> Elements, Atoms, Compounds Chemical Naming Rules Ionic and Covalent Bonds Balancing Chemical Reactions		<u>Stoichiometry</u> Mole in Chemistry Quantifying Chemical Reactions Balancing Chemical Reactions Gas Laws			<u>Chemical Reactions</u> Types of Chemical Reactions Ions and Solutions Acid and Base Chemistry Acid-Base Titration		<u>Electrochemistry & Organic</u> Redox reactions Battery production Petroleum products and polymers Alternative Fuels		
Anatomy and Physiology (Articulated with COCC)	<u>Cells and Tissues</u> Cells and Cell Division Proteins, Fats, Carbohydrates Cellular Metabolism		<u>Systems</u> Digestive System Skeletal System Muscular System			<u>Systems</u> Integumentary System Endocrine System Nervous System		<u>Systems</u> Blood and Circulatory System Lymphatic System Cardiovascular System		

