School Alive

Ignite Your Passion

2024-2025

Course Catalog


SCHOOL ALIVE

Education 2.0
CONFERENCE

Las Vegas, USA - 2024

★★★★★

Dr. Graham Pierce Lyon

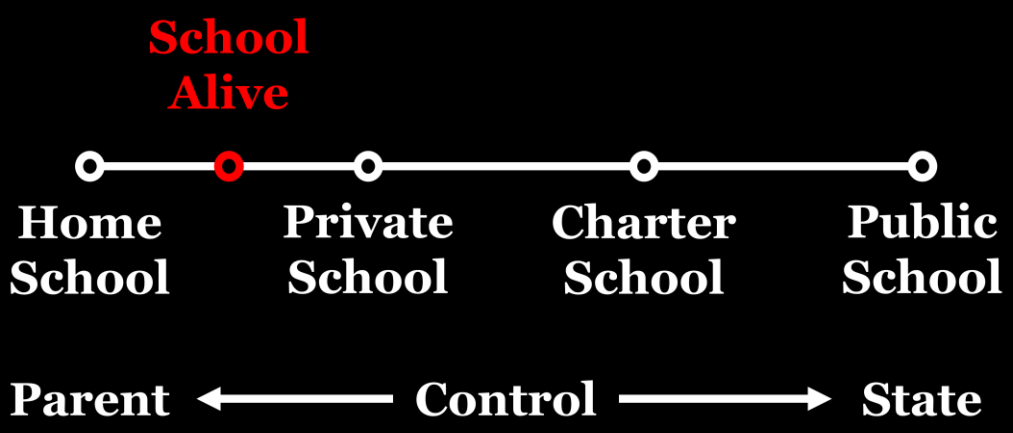
Founder & President | School Alive

EDUCATION 2.0 - OUTSTANDING LEADERSHIP AWARD

NATIONAL MICROSCHOOLING CENTER

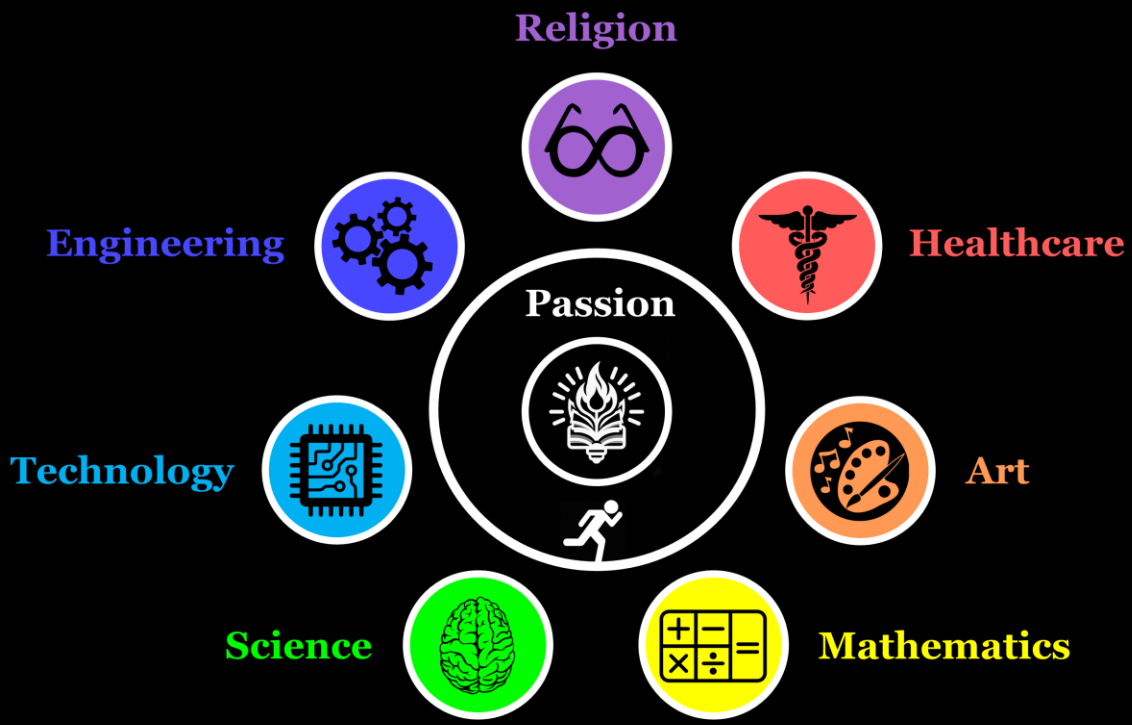
MEMBER

Educational Governance Spectrum



School Alive Framework

Authentic HAMSTER Education



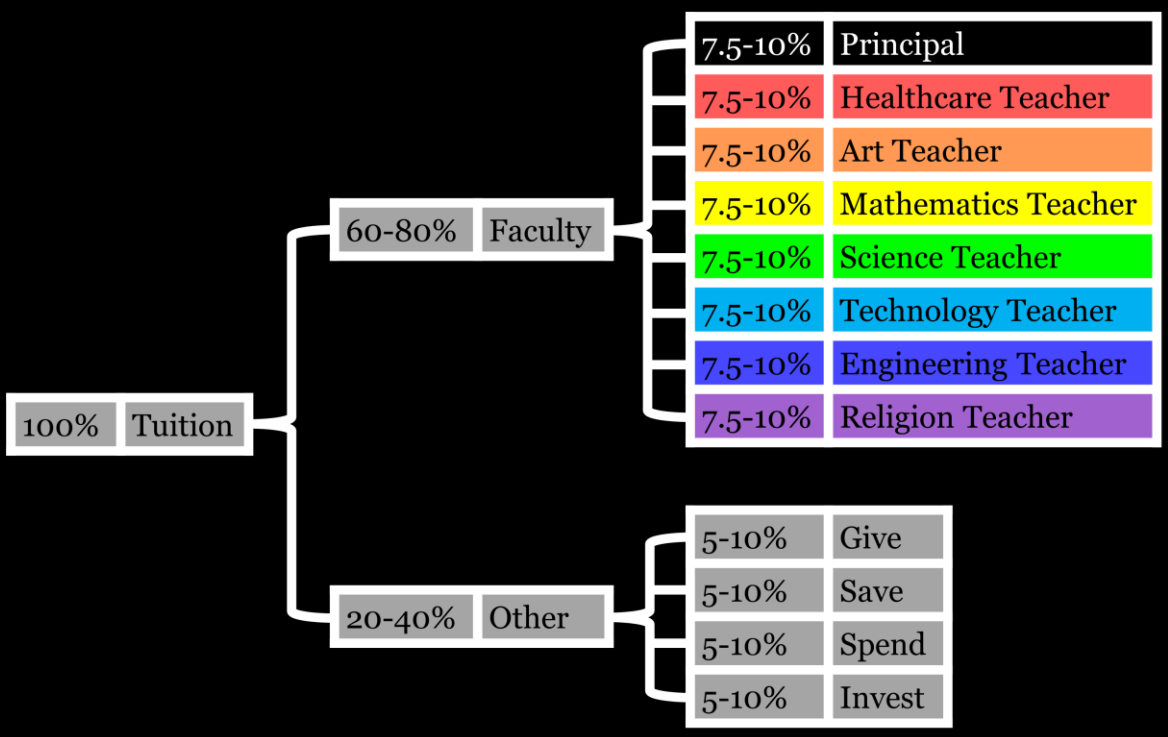
School Alive System

Age	Grade	Level	Phase	Type	Stage
17-18	12	7	Rhetoric Wisdom Application	Academy High	Secondary
16-17	11				
15-16	10	6			
14-15	9				
13-14	8	5	Logic Understanding Thought	Intermediate Middle	
12-13	7				
11-12	6	4			Primary
10-11	5				
9-10	4	3	Grammar Knowledge Language	Elementary Low	
8-9	3				
7-8	2	2			
6-7	1				
5-6	K	1			
4-5	P				

School Alive Schedule

Traditional		Block		
07:30 - 08:00	Arrival	07:30 - 08:00	Arrival	
08:00 - 08:05	United	08:00 - 08:05	United	
08:08 - 08:48	Period 1	08:10 - 09:30	Period 1	Period 5
08:51 - 09:31	Period 2			
09:34 - 10:14	Period 3	09:35 - 10:55	Period 2	Period 6
10:17 - 10:57	Period 4			
11:00 - 12:00	Lunch/Recess	11:00 - 12:00	Lunch/Recess	
12:03 - 12:43	Period 5	12:05 - 13:25	Period 3	Period 7
12:46 - 13:26	Period 6			
13:29 - 14:09	Period 7	13:30 - 14:50	Period 4	Period 8
14:12 - 14:52	Period 8			
14:55 - 15:00	United	14:55 - 15:00	United	
15:00 - 15:30	Dismissal	15:00 - 15:30	Dismissal	

School Alive Tuition



***This Course Catalog is subject to change…**

CARING HEALTHCARE

Level 1 (Grade P & K)

Healthy Beginnings
Why do we wash our hands and brush our teeth? In this course, students will learn the basics of personal hygiene and self-care, understanding how good habits keep us healthy. By the end, they will complete a fun project showing what they've learned about staying clean and healthy.

Mini Martial Artists
Did you know even kids can learn self-defense? Through age-appropriate martial arts, children will develop physical fitness, coordination, and respect for others. They will demonstrate their skills in a safe and structured environment, showcasing their progress in a mini martial arts presentation.

Gardening For Little Hands
Ever wondered where our food comes from? This course introduces young students to gardening, teaching them how plants grow and the importance of fresh vegetables. They will plant their own garden and watch it flourish, learning responsibility and the joy of nurturing life.

Move And Groove
How does moving our bodies make us feel good? We'll explore basic anatomy by learning about our muscles and joints through fun songs and activities. Students will participate in playful exercises that improve their coordination and strength, culminating in a joyful movement showcase.

Level 2 (Grade 1 & 2)

Body Motion
How do our muscles and joints help us move? Students will dive deeper into the human body, learning about different types of joints and muscles through interactive lessons and activities. They will create a model of the human body showing how it moves, reinforcing their understanding.

Junior Fitness
Can exercise be fun? This course emphasizes the joy of physical activity through games and sports, helping students develop endurance, strength, and flexibility. They will set personal fitness goals and celebrate their achievements with a fun fitness day event.

Healthy Eating Habits
What makes a meal healthy? Students will learn about different food groups, balanced diets, and how to make nutritious choices. They will plan and prepare simple, healthy snacks, gaining confidence in making food choices that nourish their bodies.

First Aid For Kids
What should we do if someone gets hurt? This introductory course teaches basic first aid skills, including how to call for help, treat minor injuries, and understand the importance of safety. By the end, students will earn a "Junior First Responder" certificate.

Level 3 (Grade 3 & 4)

Sports And Fitness
How do different sports help our bodies stay strong? Students will engage in various sports and physical activities, learning the specific muscle groups each sport benefits. They will participate in a friendly sports tournament, applying their skills and teamwork.

Nutrition Detectives
What's really in our food? This course teaches students to read food labels and understand the nutritional value of what they eat. They will conduct a nutrition experiment and present their findings, becoming savvy consumers of healthy foods.

Basic Anatomy And Physiology
What are the main systems in our bodies? Students will explore the digestive, respiratory, and circulatory systems through hands-on activities and models. They will create a detailed poster of one body system, demonstrating their understanding of how it works.

Healthy Cooking For Kids
How can we make cooking fun and healthy? In this course, students will learn to prepare simple, nutritious meals and snacks. They will develop a recipe book of healthy dishes they've made, sharing their culinary creations with family and friends.

Level 4 (Grade 5 & 6)

Warrior Training
How can martial arts build both strength and character? This advanced martial arts course focuses on self-defense, discipline, and physical fitness. Students will demonstrate their progress in a martial arts showcase, emphasizing respect and perseverance.

Nutrition and Wellness
Why is nutrition important for our overall wellness? Students will delve into the science of nutrition, learning how to make healthy food choices that fuel their bodies. They will develop a personal wellness plan that includes balanced meals and regular physical activity.

Level 5 (Grade 7 & 8)

Fitness For Life
How can we maintain lifelong fitness? This course covers comprehensive fitness programs, including strength training, cardio, and flexibility exercises. Students will create and follow a personal fitness plan, learning to maintain a healthy lifestyle.

Advanced Human Anatomy & Physiology
What makes our bodies work? Students will explore the complex systems of the human body, such as the endocrine, immune, and nervous systems. They will complete a detailed project on one body system, demonstrating their in-depth understanding.

Advanced Health Science
What are some common health issues and how can we understand them better? This course covers deeper aspects of human anatomy, physiology, and health conditions. Students will research a health topic and present their findings, fostering a compassionate approach to healthcare.

Culinary Arts
What's the secret to cooking delicious and nutritious meals? This course builds on basic cooking skills, introducing more complex recipes and techniques. Students will prepare a meal for their families, showcasing their culinary skills and knowledge of food safety.

Emergency Response
How can we respond to medical emergencies? This course teaches CPR, first aid, and basic emergency response skills. Students will earn certification in CPR and first aid, preparing them to act confidently in emergency situations.

Sustainable Gardening and Cooking
How can we grow and cook our own food sustainably? Students will learn advanced gardening techniques, food preservation methods, and nutritious cooking. They will plan and execute a sustainable garden-to-table project, promoting self-sufficiency and environmental stewardship.

COLORFUL ART

Level 1 (Grade P & K)

Alphabet Adventurers
Did you know that every letter has its own sound and story? This enriching language arts course is designed to introduce young learners to the essentials of reading through phonics, alphabet awareness, and early word recognition. By the end, students will create their own alphabet book, filled with colorful drawings and simple words.

Storytime Spectacular
What makes a story captivating? In this course, students will explore classic children's stories, learning about characters, settings, and plots. They will create their own illustrated storybook, showcasing their creativity and understanding of storytelling elements.

Musical Movements
How can music help us learn? Students will engage in singing, rhythm exercises, and movement activities that enhance their language skills and coordination. They will perform a short musical piece, combining singing and dancing to demonstrate their learning.

Creative Colors
How do colors tell a story? This course introduces basic art concepts through drawing, painting, and crafting. Students will create a colorful art portfolio, featuring their own masterpieces inspired by the stories and lessons they learn.

Level 2 (Grade 1 & 2)

Reading Rangers
Why is reading like going on an adventure? Students will dive into early readers and chapter books, developing their reading comprehension and vocabulary skills. They will create a reading journal, documenting their favorite stories and what they learned from them.

Little Writers
How can we share our thoughts through writing? This course focuses on developing writing skills through fun activities like writing letters, short stories, and poems. Students will compile a personal anthology of their written works, showcasing their progress and creativity.

Drama Kids
What makes a play exciting to watch? Students will explore the basics of drama through acting games, improvisation, and simple scripts. They will perform a short play, bringing characters and stories to life on stage.

Visual Arts Exploration
How do artists express their feelings? This course encourages students to experiment with different art mediums such as drawing, painting, and sculpture. They will curate an art exhibit, displaying their favorite pieces and explaining the stories behind them.

Level 3 (Grade 3 & 4)

Book Detectives
What clues do authors leave in their stories? Students will analyze classic and contemporary literature, identifying themes, characters, and settings. They will create a detective's case file for each book, complete with summaries, character profiles, and their own illustrations.

Young Authors
How can we craft a compelling story? This course guides students through the process of writing their own short stories, focusing on plot structure, character development, and descriptive language. They will publish a class anthology, featuring their best stories and illustrations.

Expressive Drama
How do actors convey emotions? Students will delve into more advanced drama techniques, including voice modulation, body language, and scriptwriting. They will produce a short theatrical performance, highlighting their skills in acting and storytelling.

Artistic Expressions
What inspires artists to create? This course encourages students to explore various art forms and techniques, from watercolor painting to clay modeling. They will present an art showcase, featuring their own creations and discussing the inspiration behind each piece.

Level 4 (Grade 5 & 6)

Literature Explorers
What can we learn from the great works of literature? Students will read and analyze classic novels and poetry, discussing themes, historical contexts, and literary techniques. They will create a literature portfolio, including essays, creative responses, and artwork inspired by the texts.

Creative Writing
How do we develop our unique writing voice? This course focuses on refining writing skills through poetry, narrative essays, and short stories. Students will compile a creative writing journal, filled with their original works and illustrations.

Advanced Drama
What does it take to put on a play? Students will learn advanced acting techniques, stage management, and scriptwriting. They will perform a full-length play, taking on various roles from actors to directors and stage crew.

Mastering The Arts
How do different art forms influence each other? This interdisciplinary course integrates visual arts, music, and drama, encouraging students to see the connections between them. They will create a multimedia art project, combining elements of painting, sculpture, and performance.

Level 5 (Grade 7 & 8)

Classic Literature Studies
Why are some books considered timeless? Students will delve into classic literature, exploring complex themes, character development, and historical contexts. They will write in-depth literary analyses and create visual presentations to share their insights.

Advanced Creative Writing
How can we polish our writing to perfection? This course focuses on advanced writing techniques, including persuasive essays, research papers, and creative fiction. Students will publish their own book, complete with professional formatting and illustrations.

Crafting Convincing Arguments
What makes an argument convincing? Students will study the principles of rhetoric, learning to craft arguments using ethos, logos, and pathos. They will deliver persuasive speeches and write compelling essays, showcasing their mastery of rhetorical skills.

Visual And Performing Arts
How can we express stories through art? This course combines advanced visual arts with performance techniques, encouraging students to create and interpret complex works of art. They will produce a collaborative project, such as a mural or a theatrical performance, integrating their artistic talents.

CALCULATED MATHEMATICS

Level 1 (Grade P & K)

Number Ninjas
Did you know numbers can be like secret codes? This course introduces young learners to basic arithmetic through fun activities like counting games, number songs, and simple addition and subtraction. By the end, students will create a colorful number book filled with their favorite number stories and drawings.

Shape Explorers
What can you build with shapes? Students will learn about basic geometry by identifying and creating shapes through hands-on activities like building with blocks and drawing shapes in different sizes. They will create a shape collage, showcasing their understanding of various geometric forms.

Money Smart Kids
Why is money important? This course introduces the concept of money, basic financial literacy, and the value of saving and spending wisely through interactive games and stories. Students will create their own "piggy banks" and practice using play money to make simple transactions.

Pattern Puzzles
Can you find the pattern? Students will develop logical thinking and pattern recognition skills through activities like sorting objects, completing patterns, and playing matching games. They will create a pattern poster, demonstrating their ability to identify and create different types of patterns.

Level 2 (Grade 1 & 2)

Math Magicians
How can math be magical? This course explores basic arithmetic and problem-solving through fun and engaging activities like math games, puzzles, and magic tricks that involve numbers. Students will perform a "math magic show" for their classmates, showcasing their new skills and tricks.

Geometry Adventures
What shapes do you see around you? Students will explore more advanced geometric concepts, such as symmetry, shapes in nature, and basic 3D shapes, through drawing and building projects. They will create a geometry scrapbook, documenting their discoveries and creations.

Junior Economists
How do we use money every day? This course dives into basic economics, teaching students about earning, saving, and spending through interactive simulations and role-playing activities. Students will create a mini-marketplace, where they can practice buying and selling goods using play money.

Statistics and Graphing Fun
What can we learn from collecting data? Students will learn the basics of statistics and graphing by conducting simple surveys and experiments, then representing their findings with bar graphs and pictograms. They will create a class survey project, presenting their data in colorful and informative graphs.

Level 3 (Grade 3 & 4)

Math Detectives
Can you solve the mystery? Students will tackle more complex arithmetic and problem-solving challenges through detective-themed activities and math puzzles. They will create a "math mystery book," filled with the problems they solved and the strategies they used.

Shapes and Spaces
How do we measure the world around us? This course explores geometry and spatial reasoning, focusing on concepts like area, perimeter, and volume through real-world applications. Students will design and build a simple model of a playground, using their knowledge of measurements and shapes.

Money Matters
How can we make smart financial decisions? Students will learn about budgeting, saving, and investing through interactive projects and simulations. They will create a personal budget plan, demonstrating their understanding of managing money wisely.

Probability and Games
What are the chances of winning? This course introduces students to basic probability through fun games and experiments, helping them understand concepts like chance and likelihood. They will design and run their own probability-based game, using their knowledge to explain the outcomes.

Level 4 (Grade 5 & 6)

Algebra Explorers
What do letters have to do with numbers? Students will be introduced to the basics of algebra, learning how to use variables and solve simple equations through engaging activities and real-life problems. They will create an algebra project, solving and presenting equations that describe everyday situations.

Geometry in Action
How does geometry help us build things? This course dives deeper into geometric concepts, focusing on practical applications like designing structures and understanding angles. Students will create a detailed blueprint of a simple building or structure, applying their geometric knowledge.

Financial Wizards
How do we plan for the future? Students will learn about advanced financial concepts such as interest, loans, and entrepreneurship through simulations and projects. They will develop a business plan for a small business, incorporating budgeting, cost analysis, and financial projections.

Data and Statistics
How do we make sense of information? This course covers more advanced statistics and data analysis, teaching students how to collect, interpret, and present data effectively. They will conduct a class research project, analyzing their findings and presenting their results in detailed charts and graphs.

Level 5 (Grade 7 & 8)

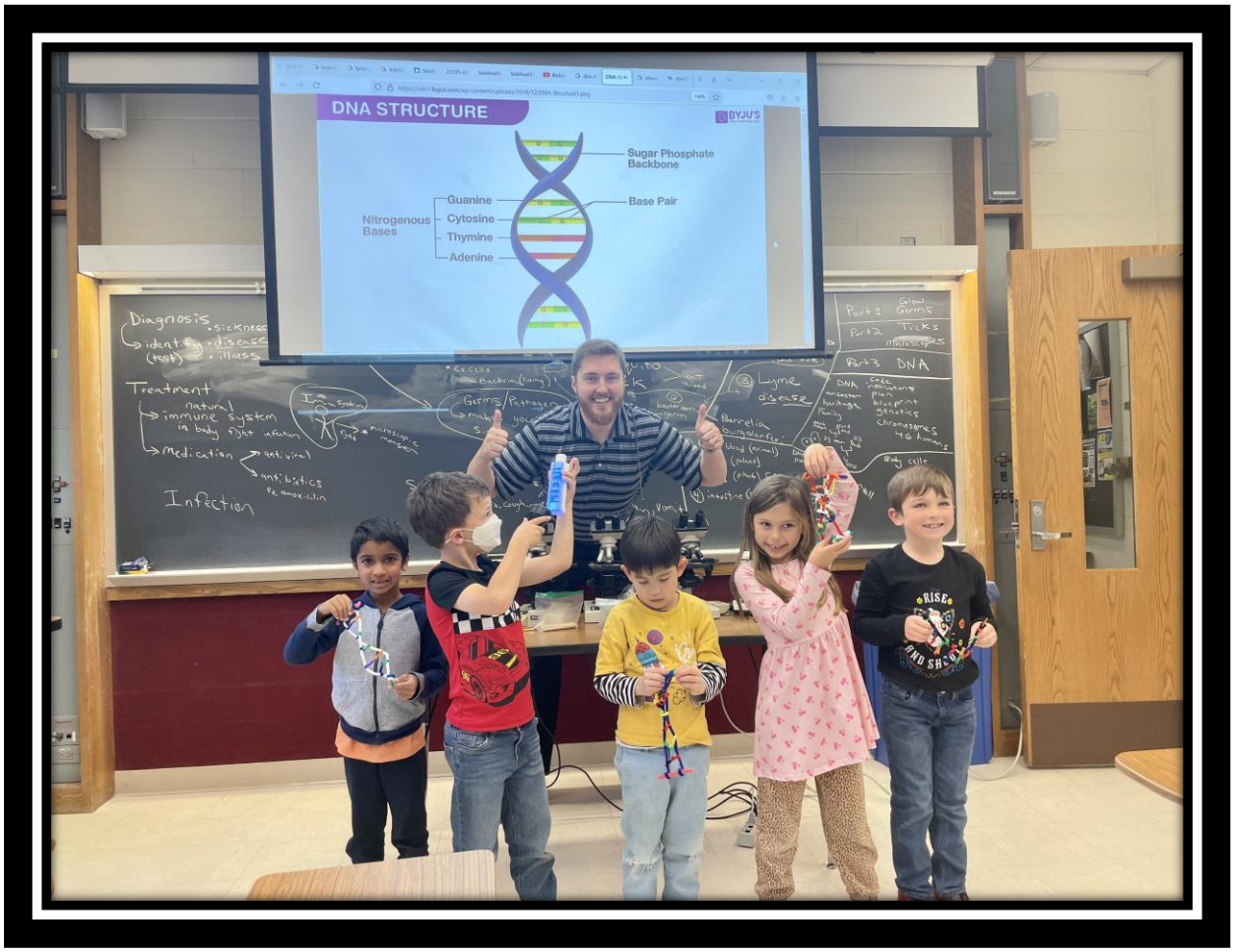
Advanced Algebra
How can algebra solve real-world problems? Students will explore more complex algebraic concepts, such as quadratic equations and functions, through practical applications and problem-solving activities. They will complete a real-world algebra project, demonstrating how algebra can be used to solve everyday problems.

Trigonometry and Angles
What can triangles teach us? This course covers the basics of trigonometry, focusing on understanding and applying concepts like sine, cosine, and tangent in real-life contexts. Students will create a trigonometry project, using their skills to solve practical problems involving angles and distances.

Economics and Financial Literacy
What drives our economy? Students will delve into macroeconomics and personal finance, learning about topics like supply and demand, investment strategies, and economic indicators. They will develop a comprehensive financial plan, including budgeting, saving, investing, and understanding economic trends.

Calculus Concepts
What are the principles behind change and motion? This introductory course to calculus covers fundamental concepts such as limits, derivatives, and integrals, applied to real-world situations. Students will create a calculus project, using their understanding to analyze and solve dynamic problems involving rates of change.

CURIOUS SCIENCE



Level 1 (Grade P & K)

Nature Detectives
Did you know that the world around us is full of tiny mysteries? This course introduces young learners to the basics of biology and ecology through exploring plants, insects, and animals in their natural habitats. Students will create a nature journal, documenting their observations and discoveries with drawings and sentences.

Weather Wonders
What makes the weather change? Students will learn about different types of weather, the water cycle, and how weather affects our daily lives through interactive experiments and observations. They will create a weather chart, recording and predicting daily weather patterns.

Level 2 (Grade 1 & 2)

Animal Adventures
What can animals teach us about life? This course dives into the world of animals, exploring different species, habitats, adaptations, and life cycles through observations, stories, and hands-on activities. Students will create an animal fact file, featuring their favorite animals and interesting facts about them.

Earth and Space Explorers
What's beyond our planet? Students will learn about the Earth, the moon, the stars, and the planets through interactive lessons and space-themed projects. They will create a model of the solar system, demonstrating their understanding of space and celestial bodies.

Level 3 (Grade 3 & 4)

Cell Explorers
What makes up all living things? Students will delve into the microscopic world, learning about cell structures, functions, and the basics of DNA through hands-on experiments and observations using microscopes. They will prepare and examine their own slides, creating a detailed cell journal to document their findings.

Rocks And Minerals
What stories do rocks tell? This course covers basic geology, teaching students about different types of rocks, minerals, and the rock cycle through hands-on activities and field studies. Students will create a rock and mineral collection, complete with labels and descriptions.

Mini Historians
How do we learn about the past? This course introduces students to the concept of history and timelines through stories, simple artifacts, and role-playing activities. Students will create a personal history timeline, including pictures and descriptions of significant events in their lives.

Exploring the Senses
How do our senses help us understand the world? Students will explore the five senses through hands-on activities and experiments, learning how we use sight, hearing, taste, touch, and smell. They will create a "senses book," showcasing their experiences and findings.

Young Geographers
How do maps tell stories? This course introduces basic geography, teaching students to read and create maps, understand directions, and explore different cultures and landscapes. Students will create a map of their community, highlighting important landmarks and features.

Simple Machines and How They Work
How do machines make our lives easier? Students will explore basic physics concepts by studying simple machines like levers, pulleys, and wheels through hands-on experiments. They will create a simple machine project, demonstrating how these tools work in everyday life.

Community Historians
How has our community changed over time? Students will explore local history through research, interviews, and visits to historical sites. They will create a community history project, showcasing their findings through presentations and visual displays.

Energy Everywhere
What powers our world? Students will learn about different forms of energy, including kinetic, potential, thermal, and renewable energy sources, through experiments and interactive lessons. They will create an energy poster, illustrating the various types of energy and their uses.

Level 4 (Grade 5 & 6)

Ecology and Conservation
How do living things interact with their environment? This course explores ecosystems, food chains, and the importance of conservation through field studies, research, and experiments. Students will create an ecosystem diorama, showcasing their understanding of ecological relationships.

Introduction to Chemistry
What is everything made of? Students will learn the basics of chemistry, including elements, compounds, and simple chemical reactions through hands-on experiments and activities. They will conduct a series of experiments and present their findings in a chemistry lab book.

World Geography
What makes each place on Earth unique? This course covers physical and human geography, teaching students about different regions, climates, cultures, and how geography influences human activity. Students will create a world atlas, including maps, facts, and cultural highlights of different countries.

Physics in Motion
How do things move? Students will explore the principles of motion, forces, and energy through experiments and interactive activities. They will design and build a simple machine, applying their understanding of physics concepts to solve a practical problem.

Level 5 (Grade 7 & 8)

Advanced Biology
What makes living organisms so complex? This course delves into cellular biology, genetics, and the diversity of life through in-depth studies and experiments. Students will conduct a biology research project, presenting their findings in a detailed report and presentation.

Astronomy And Space Science
What are the mysteries of the universe? Students will explore advanced topics in astronomy, including the lifecycle of stars, black holes, and the structure of the universe through observations and research. They will create an astronomy project, such as a model or presentation, explaining a specific astronomical phenomenon.

Historical Perspectives
How have past events shaped our world today? This course examines significant historical events and their impact on modern society through research, Socratic seminars, and analysis of primary sources. Students will write a research paper on a historical topic of their choice, presenting their findings and analysis.

Environmental Stewardship
How can we be good stewards? Students will study environmental science topics such as conserving natural resources, reducing waste, and the importance of recycling through hands-on experiments, research, and community projects. They will develop a stewardship action plan, focusing on practical solutions like picking up garbage, reducing, reusing, and recycling to care for their local environment.

CLEVER TECHNOLOGY

Level 1 (Grade P & K)

Digital Discoveries
What is a computer, and how do we use it? This course introduces young learners to basic computer parts, keyboard skills, and simple digital literacy through engaging activities and games. By the end, students will create their own digital drawings and understand the basics of computer use.

Keyboard Kids
How fast can you type your name? Students will develop essential keyboard skills through fun typing games and exercises, learning proper hand placement and typing techniques. They will complete a typing challenge to showcase their improved speed and accuracy.

Tech Time Tots
What can we create with technology? This course explores age-appropriate educational apps and introduces the basics of coding through interactive storytelling and puzzles. Students will create a simple digital story to share with their classmates.

Intro To Coding
How do computers understand instructions? Students will explore basic coding concepts using age-appropriate platforms like ScratchJr, fostering logical thinking and problem-solving skills. They will create and present a simple animated story or game.

Level 2 (Grade 1 & 2)

Keyboard Wizards
Can you type without looking at the keyboard? Building on foundational skills, this course focuses on touch typing techniques and improving typing speed and accuracy. Students will participate in a typing competition to demonstrate their progress.

Digital Artistry
How can we create art on a computer? Students will learn the basics of digital drawing and image editing using kid-friendly software. They will create and print their own digital artwork to display in the classroom.

Beginner Coding
What is coding, and why is it important? This course introduces students to the fundamentals of coding through fun and interactive platforms like Code.org. They will design and present their own simple game or animation.

Technology and Nature
How can we use technology to learn about the world around us? Students will explore the use of technology in studying nature, such as digital microscopes and educational apps. They will create a digital nature journal to document their findings.

Level 3 (Grade 3 & 4)

Typing Titans
How can we become typing champions? This course enhances students' typing skills through advanced exercises and timed tests, aiming for higher speed and accuracy. Students will complete a series of typing challenges to earn their Typing Titan certificates.

Creative Coding
How can we make our own video game? Students will delve into more advanced coding concepts using Scratch, learning to create interactive stories, games, and animations. They will develop and present a fully functional game or animation project.

3D Printing Basics
What can we build with a 3D printer? Students will learn the basics of 3D modeling and printing, exploring how digital designs are transformed into physical objects. They will design and print their own 3D models to take home.

Intro To Filmmaking
How do we make a movie? This course introduces students to the basics of filmmaking, including storyboarding, filming, and editing using simple video editing software. They will create and present a short film or video project.

Level 4 (Grade 5 & 6)

Web Wizards
How can we build our own website? Students will learn the fundamentals of web design, including HTML and CSS, to create their own websites. They will design and publish a personal or project-based website to showcase their skills.

Advanced Coding
What can we create with more complex code? This course explores advanced coding concepts and languages such as Python, fostering deeper problem-solving and programming skills. Students will develop and present a more complex coding project, such as a game or application.

Digital Media and Design
How can we create and edit digital images? Students will learn the principles of graphic design using software like GIMP and Inkscape to create and edit digital artwork. They will produce a digital portfolio showcasing their designs.

Arduino Adventures
What can we build with microcontrollers? Students will explore the world of electronics and programming using Arduino kits, learning to build and program simple circuits and devices. They will create and present an Arduino-based project.

Level 5 (Grade 7 & 8)

App Development
How can we create a mobile app? Students will learn the basics of app development using platforms like MIT App Inventor, exploring the entire process from concept to deployment. They will design, build, and present their own functional mobile app.

3D Modeling and Animation
How do we create 3D animations? This course teaches students the fundamentals of 3D modeling and animation using software like Blender, exploring techniques used in film and video game production. They will create and animate their own 3D character or scene.

Filmmaking And Video Editing
How do we produce professional-quality videos? Students will delve into advanced filmmaking techniques, including cinematography, lighting, and editing with software like DaVinci Resolve. They will produce, edit, and present a short film or documentary.

Build A Computer
What goes inside a computer, and how do we put it together? This hands-on course guides students through the process of building a computer from scratch, learning about hardware components and their functions. They will assemble and configure their own working computer.

CREATIVE ENGINEERING

Level 1 (Grade P & K)

Lego Engineering
Why do buildings stay up and bridges hold weight? In this course, students will learn the basics of structural engineering using Lego blocks to build various structures. By the end of the course, each student will design and build their own sturdy Lego tower.

Play-Doh Engineering
What shapes can you create with Play-Doh? This course introduces young learners to the concepts of shapes, sizes, and basic engineering principles through hands-on activities with Play-Doh. Students will create a variety of Play-Doh models, exploring how different shapes can be used in engineering designs.

Simple Machines Fun
How do pulleys and levers make work easier? Students will explore simple machines such as pulleys, levers, and inclined planes through interactive play and building projects. They will construct their own simple machine to demonstrate how these tools work.

Spaghetti Towers
How tall can you build a tower using just spaghetti and marshmallows? This fun and engaging course teaches students about balance, stability, and design as they work in teams to construct the tallest spaghetti tower. The final challenge will be a competition to see which team can build the highest structure.

Level 2 (Grade 1 & 2)

Cardboard Construction
What can you build with a cardboard box? Students will learn about design, measurement, and construction using cardboard to create a variety of projects. Each student will design and build a unique cardboard model, such as a house or a car.

Marble Run Madness
How can you make a marble run faster? In this course, students will explore gravity, speed, and engineering by designing and constructing marble runs using everyday materials. They will create their own marble run track and test its speed and efficiency.

Building Bridges
What makes a bridge strong? This course introduces students to the principles of bridge design and engineering through hands-on projects. They will build different types of bridges using craft sticks and test their strength and stability.

Wind Power Wonders
How can wind make things move? Students will explore renewable energy by designing and building their own wind-powered machines. They will learn about the importance of wind energy and create a simple windmill to demonstrate their understanding.

Level 3 (Grade 3 & 4)

Birdhouse Builders
How do you create a home for birds? In this course, students will learn woodworking skills and basic construction principles to build their own birdhouses. Each student will design, construct, and decorate a birdhouse to take home.

Climbing Wall Challenge
What does it take to build a climbing wall? Students will work together to design and construct a small climbing wall for the playground, learning about safety, materials, and construction techniques. The final project will be a functional climbing wall that they help to build and test.

Cardboard City
Can you design and build a city out of cardboard? This course will teach students about urban planning and architecture as they work in teams to create a model city using cardboard and other recyclable materials. They will present their completed city to the class.

Egg Drop Engineering
How can you protect an egg from breaking when dropped? Students will explore the concepts of shock absorption and structural design by creating protective devices for eggs. They will test their designs by dropping their egg containers from a height to see if their egg survives.

Level 4 (Grade 5 & 6)

Simple Circuits
How do circuits work? This course introduces students to the basics of electricity and circuitry through hands-on projects. They will build their own simple circuits using batteries, wires, and light bulbs and create a small electronic project.

Woodworking Wonders
What can you create with wood and basic tools? Students will learn woodworking skills, including measuring, cutting, and assembling wood, to create a variety of projects. Each student will complete a woodworking project, such as a small piece of furniture or a decorative item.

Spaghetti Bridge Builders
How strong can you make a bridge out of spaghetti? This course challenges students to design and build bridges using spaghetti and glue, testing their understanding of weight distribution and structural integrity. The final project will be a competition to see whose bridge can hold the most weight.

Catapult Creations
How far can you launch an object with a homemade catapult? Students will explore the principles of physics and engineering by designing and building their own catapults. They will test their creations in a fun competition to see whose catapult can launch an object the farthest.

Level 5 (Grade 7 & 8)

Bridge Design and Testing
How do engineers design bridges to withstand heavy loads? In this course, students will dive into the principles of bridge engineering, including load distribution, material strength, and structural design. They will work in teams to design, build, and test their own model bridges for strength and stability.

Hydraulic Machines
How do hydraulics power machines? Students will explore the basics of hydraulic systems and their applications in various engineering fields. They will design and build a simple hydraulic machine, such as a lift or a robotic arm, using syringes and tubing.

Renewable Energy Engineering
How can we design systems to harness renewable energy? This course covers the engineering principles behind renewable energy sources like solar and wind power. Students will design and construct their own renewable energy systems, such as a small solar panel array or a wind turbine, and evaluate their efficiency.

Advanced Structural Engineering
What makes structures like skyscrapers and dams strong and stable? Students will delve into advanced concepts of structural engineering, learning about forces, stress, and material properties. They will design and build models of complex structures, such as towers or bridges, and test their designs for durability and stability.

COMMUNAL RELIGION

Level 1 (Grade P & K)

Bible Stories and Heroes
Who are the great heroes of the Bible? Children will learn about key Bible characters like David, Esther, and Daniel through engaging stories and activities. They will create a picture book featuring their favorite Bible stories and heroes.

Creation Exploration
How did God create the world? This course will take children through the seven days of creation, helping them understand the beauty and order of God's work. They will create a "Creation Mobile" to depict each day of creation.

Jesus Loves Me
How do we know Jesus loves us? Through stories and songs, children will learn about the life and love of Jesus Christ. They will make a "Jesus Loves Me" collage to express their understanding of His love.

Being A Good Neighbor
What does it mean to love your neighbor? This course will teach children about kindness, sharing, and helping others, rooted in Jesus' teachings. They will participate in a service project, such as making care packages for those in need.

Level 2 (Grade 1 & 2)

Parables of Jesus
What lessons did Jesus teach through parables? Students will explore the parables of Jesus and their meanings, learning valuable life lessons. They will create a storyboard illustrating one of the parables.

God's Wonderful World
How can we see God's hand in nature? This course focuses on the beauty of God's creation and our responsibility to care for it. Students will maintain a nature journal, documenting their observations and reflections on God's creation.

Prayer And Praise
How do we talk to God? Students will learn about the importance of prayer and praise, exploring different ways to pray and worship. They will create a “Prayer and Praise” journal to record their prayers and reflections.

The Fruit of The Spirit
What are the fruits of the Spirit? Through interactive activities, students will learn about love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control. They will create a “Fruit of the Spirit” tree to display these virtues.

Level 3 (Grade 3 & 4)

Old Testament Heroes
Who were the leaders and prophets of the Old Testament? Students will delve into the stories of Moses, Elijah, and other key figures, understanding their faith and obedience to God. They will present a dramatization of a chosen Old Testament story.

New Testament Adventures
What did the apostles do after Jesus’ resurrection? This course will cover the acts of the apostles and the early church’s growth, emphasizing their courage and dedication. Students will create a map tracing the journeys of Paul and other apostles.

Serving Others
How can we serve like Jesus? Students will learn about the importance of service and community through Bible stories and practical activities. They will organize a service project to benefit their local community.

Bible and Art
How can art help us understand the Bible? This course combines Bible study with creative expression, encouraging students to illustrate and interpret Bible stories. They will produce a gallery of Bible-inspired artwork.

Level 4 (Grade 5 & 6)

Biblical Leadership
What makes a good leader according to the Bible? Students will study the leadership qualities of figures like Joshua, Deborah, and Nehemiah, applying these lessons to their own lives. They will write a leadership plan inspired by these biblical leaders.

Exploring Theology
What do we believe and why? This course introduces basic theological concepts, helping students understand the core beliefs of Christianity. They will create a personal "Statement of Faith" reflecting their understanding of these concepts.

Hermeneutics for Kids
How do we interpret the Bible? Students will learn the basics of biblical hermeneutics, distinguishing between exegesis and eisegesis. They will practice interpreting different Bible passages and present their findings.

Community and Service
How can we make a difference in our community? This course focuses on the importance of community service and the biblical call to love our neighbors. Students will plan and execute a community service project.

Level 5 (Grade 7 & 8)

Constitution Alive
How does our faith influence our understanding of the Constitution? Students will explore the biblical principles that influenced the U.S. Constitution, learning about the role of faith in American history. They will create a presentation on the intersection of faith and government.

Biblical Worldview
What is a biblical worldview? This course helps students develop a comprehensive worldview based on biblical principles, covering topics like creation, morality, and purpose. They will write an essay explaining their biblical worldview on a contemporary issue.

Apologetics
How do we defend our faith? Students will learn the basics of Christian apologetics, preparing them to answer questions and challenges to their faith. They will conduct a debate or write a paper defending a key aspect of Christianity.

Ministry and Missions
How can we share the Gospel with others? This course covers the importance of evangelism and missions, teaching students practical ways to share their faith. They will plan and participate in a local mission project.

CENTRAL PASSION

Level 1 (Grade P & K)

Creative Builders (Example)
Do you love building and creating? Students will explore the basics of engineering and construction using fun materials like Legos and Play-Doh. They will design and build their own unique structures, enhancing their creativity and spatial awareness.

Little Gardeners (Example)
How do plants grow? Through hands-on gardening activities, students will learn about plant life cycles and the importance of taking care of God's creation. They will grow their own small garden and document the growth process in a journal.

Storybook Creators (Example)
Do you have a story to tell? Students will use their imagination to create their own storybooks, illustrating and writing their unique tales. They will share their stories with the class, fostering a love for reading and storytelling.

Junior Chefs (Example)
What delicious creations can you make? This course introduces students to basic cooking and baking skills, teaching them how to prepare simple, healthy snacks. They will create a recipe book filled with their favorite creations.

Level 2 (Grade 1 & 2)

Young Inventors (Example)
Have you ever wanted to invent something new? Students will learn about famous inventors and the invention process, creating their own simple inventions using everyday materials. They will present their inventions in a class showcase.

Animal Adventurers (Example)
What can we learn from animals? Through studying different animals and their habitats, students will gain a deeper understanding of God's creatures. They will create an animal habitat diorama to display their findings.

Mini Entrepreneurs (Example)
Do you dream of starting your own business? This course will introduce students to basic business concepts, from product creation to selling. They will create and present a small business plan for a product they develop.

Digital Artists (Example)
How can we create art using technology? Students will explore digital art tools and techniques, creating their own digital masterpieces. They will compile their artwork into a digital portfolio to share with the class.

Level 3 (Grade 3 & 4)

Game Developers (Example)
Have you ever wanted to design your own game? Students will learn the basics of game design and development, creating their own simple board or video games. They will present their games at a class game day event.

Aspiring Authors (Example)
What stories do you want to tell the world? This course will guide students through the process of writing, illustrating, and publishing their own books. They will have a book signing event to share their work with others.

Eco-Warriors (Example)
How can we protect our environment? Students will learn about environmental stewardship and sustainable practices, engaging in projects like recycling drives and community clean-ups. They will create a plan to improve their local environment.

Mini Architects (Example)
What does it take to design a building? Students will explore architectural concepts and design their own buildings using materials like cardboard and craft supplies. They will create a model of their building and present it to the class.

Level 4 (Grade 5 & 6)

Robotics Enthusiasts (Example)
How can robots help us in everyday life? Students will learn about robotics and programming, building and programming their own simple robots. They will demonstrate their robots' capabilities in a class showcase.

Culinary Creators (Example)
What culinary delights can you create? This course will deepen students' cooking and baking skills, teaching them to prepare more complex dishes and meals. They will compile their recipes into a class cookbook.

Fashion Designers (Example)
Do you have a flair for fashion? Students will learn about clothing design and sewing, creating their own unique outfits. They will present their designs in a fashion show.

Tech Innovators (Example)
How can technology solve problems? Students will explore various technologies, from app development to 3D printing, to create solutions for real-world problems. They will present their tech solutions in a class exhibition.

Level 5 (Grade 7 & 8)

Aspiring Authors (Example)
Do you have a story to share with the world? This course guides students through the process of writing, editing, and publishing their own books. They will complete a book and have it published on platforms like Amazon Kindle.

Young Entrepreneurs (Example)
How do you turn a great idea into a successful business? Students will learn the fundamentals of entrepreneurship, including business planning, marketing, and financial management. They will develop and pitch their own business ideas, complete with a business plan.

Robotics Engineers (Example)
How can robotics shape our future? This course covers advanced robotics concepts, including design, programming, and problem-solving. Students will build and program complex robots to complete specific tasks and challenges.

Tech Innovators (Example)
What new technologies can you create to solve problems? Students will delve into advanced technological fields like app development, 3D printing, and artificial intelligence. They will design and create a technology-based solution to a real-world problem, presenting their innovation at a tech fair.