The Power of

Data-Driven STEAM Education!

Empowering Future Innovators



















End-to-End STEAM Ecosystem

Bridging the gap between students' capabilities and the dynamic workforce demand for skills and applied knowledge.















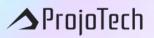


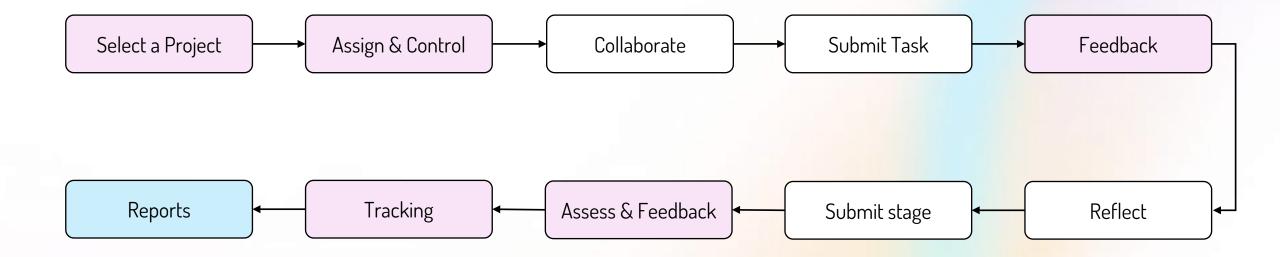
ProjoTech's Platform

Fostering collaboration and engagement, our platform serves as a workspace for students and educators to interact, share ideas, and collaborate on projects. ProjoTech Platform is an innovative interactive cloud-based app tailored for different school curricula.





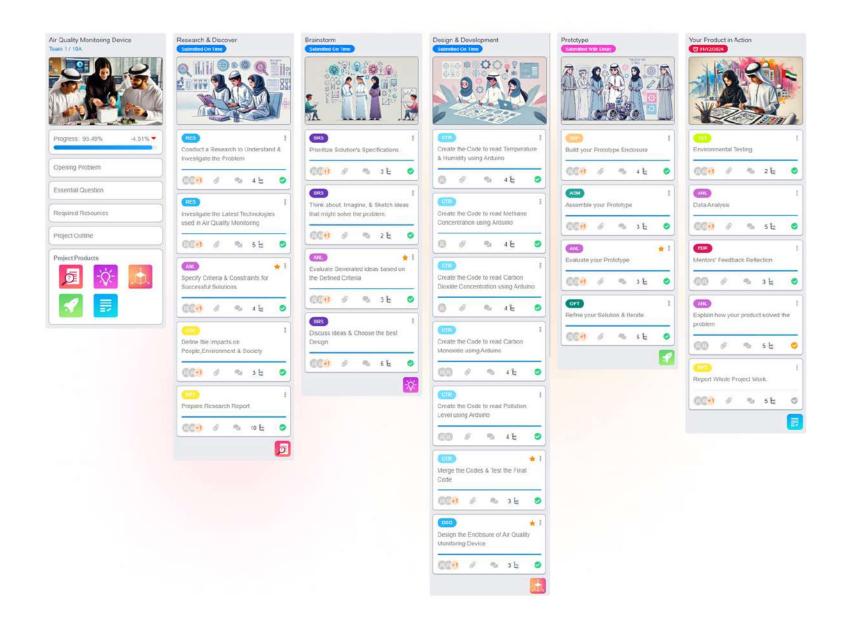






ProjoTech's Platform | The Workspace

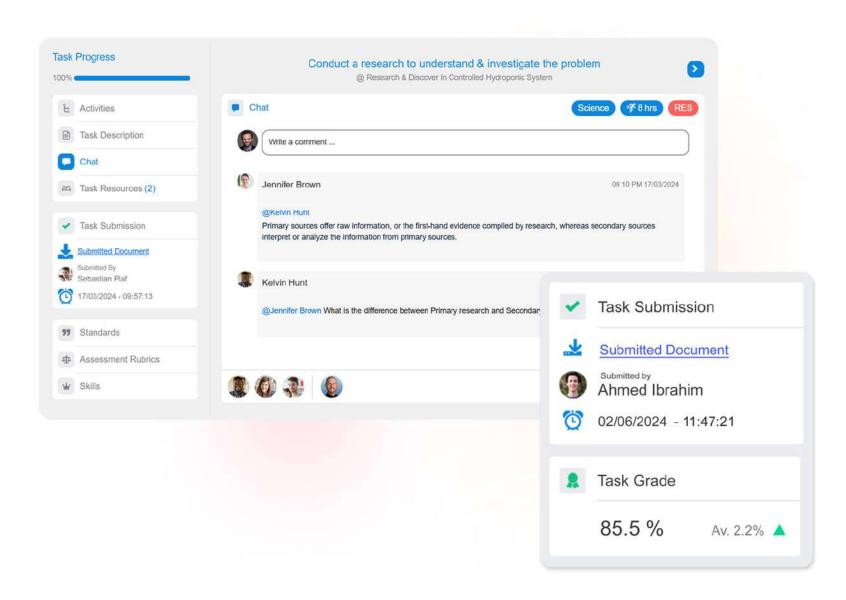






ProjoTech's Platform I Data-Rich Tasks

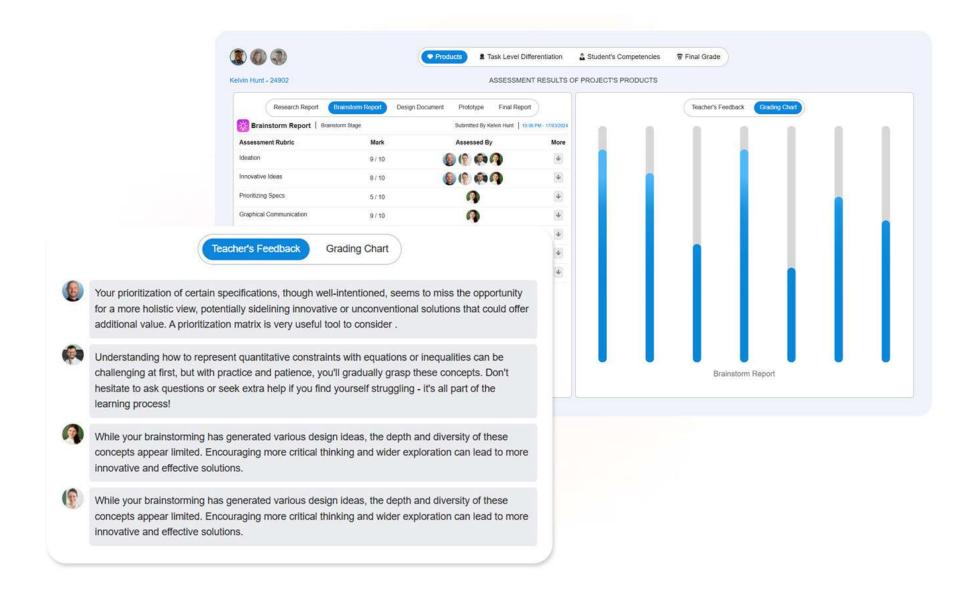






ProjoTech's Platform | Reports

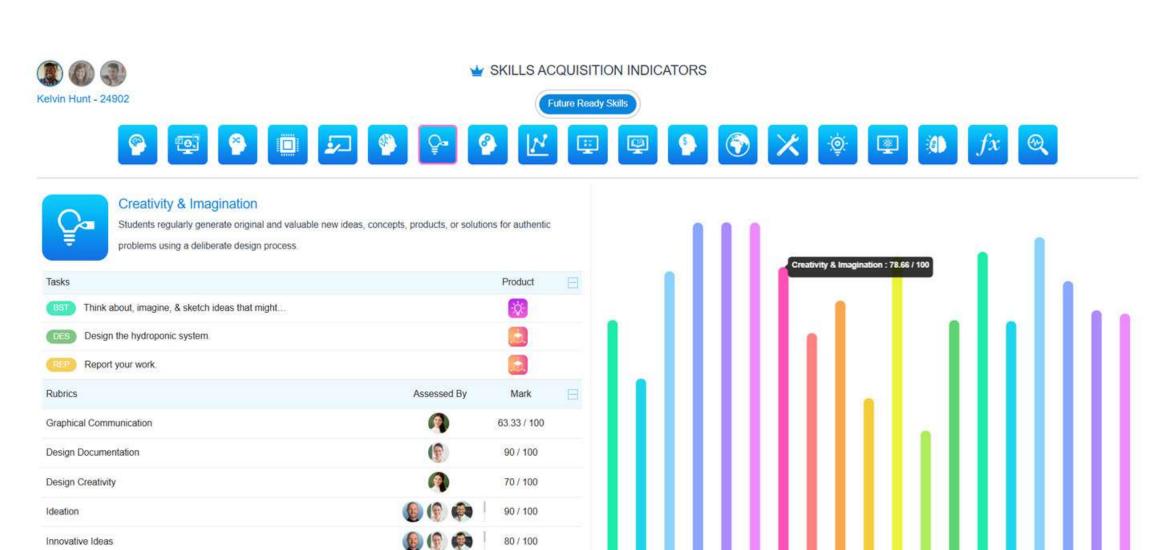






ProjoTech's Platform | Skills



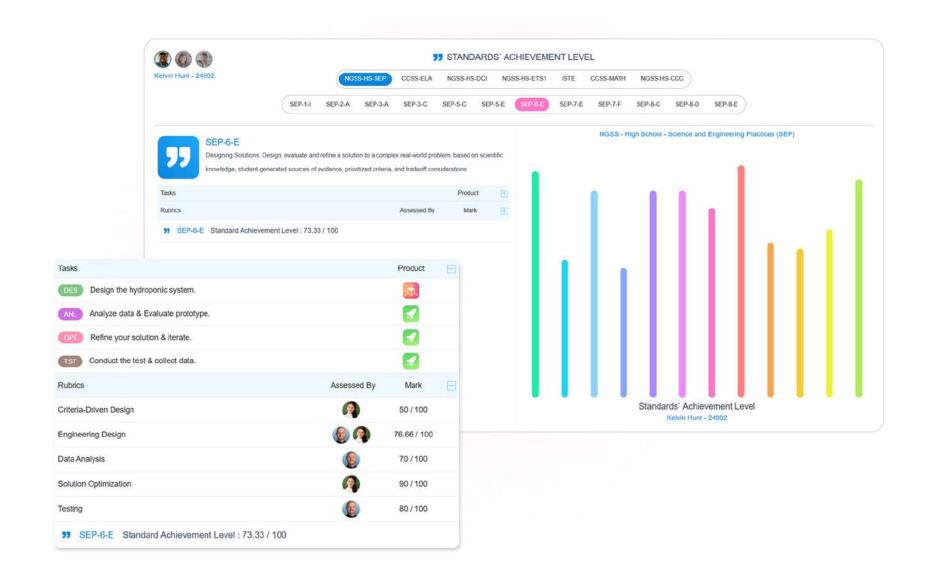


Skills Acquisition Indicator Kelvin Hunt - 24902



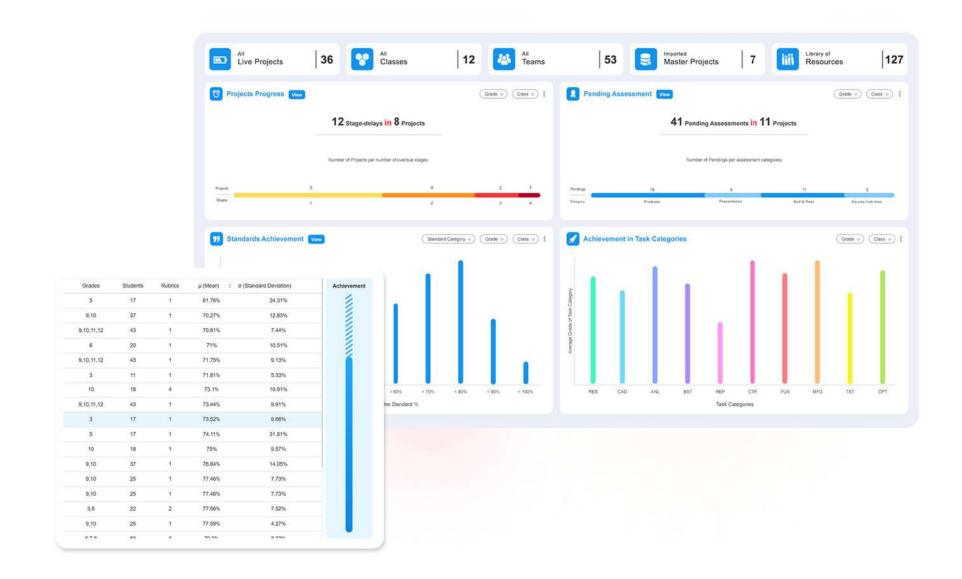
ProjoTech's Platform | Standards











△ ProjoTech



Projects Library

ProjoTech provides an extensive library of STEAM projects meticulously crafted to suit local and global educational contexts. These projects come with auto-constructed plans, clearly defined stages, and associated deliverables.















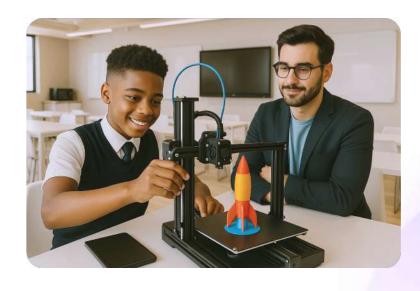
















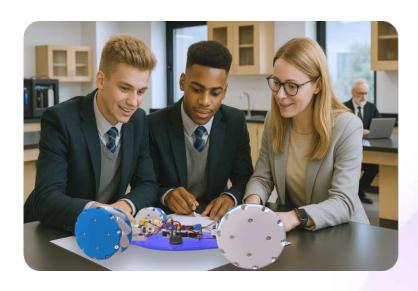








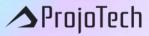












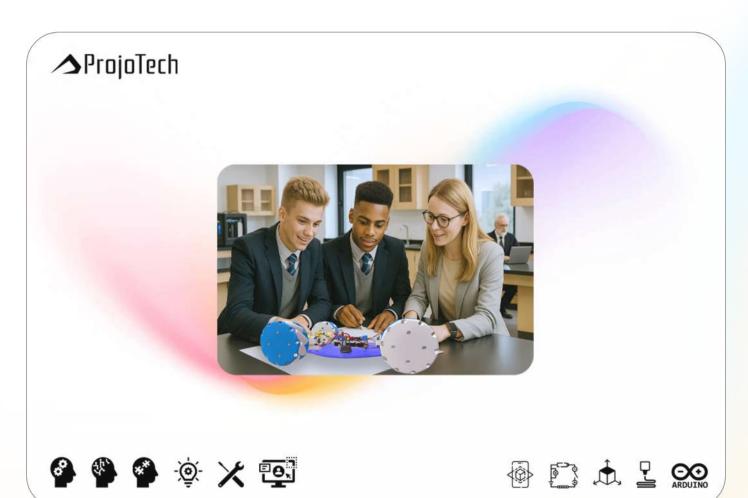


Kits Hub

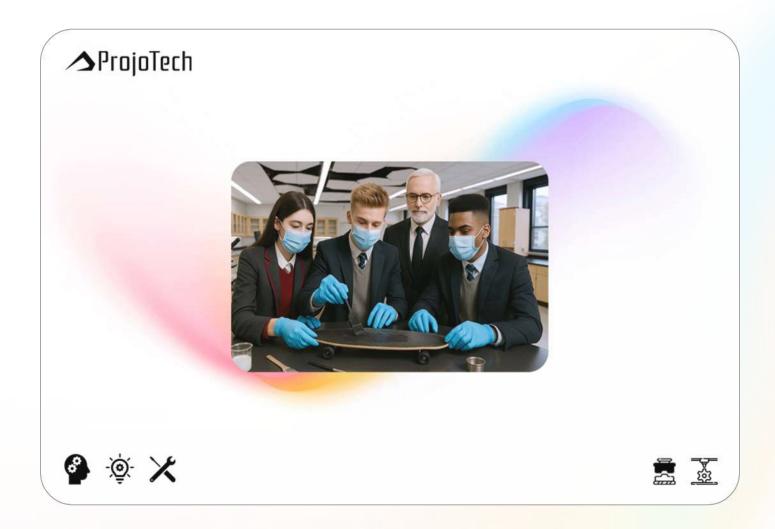
STEAM Lab in a Box!

Unlock the future of learning with our STEAM partial hardware kits! Integrating hardware components into various stages of the engineering design cycle, enriching hands-on learning experiences, and bridging theory with practical application..







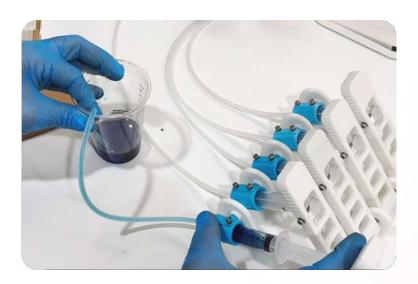


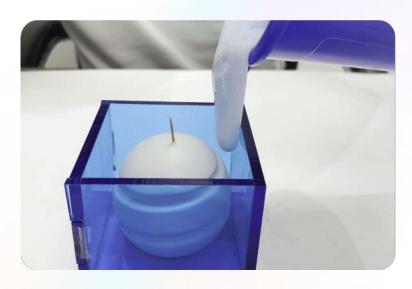
Kits Hub

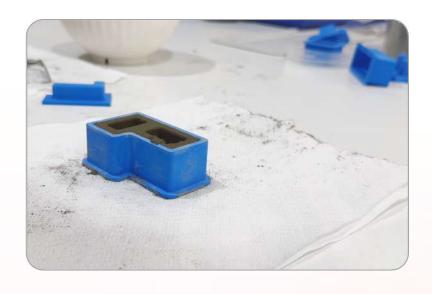
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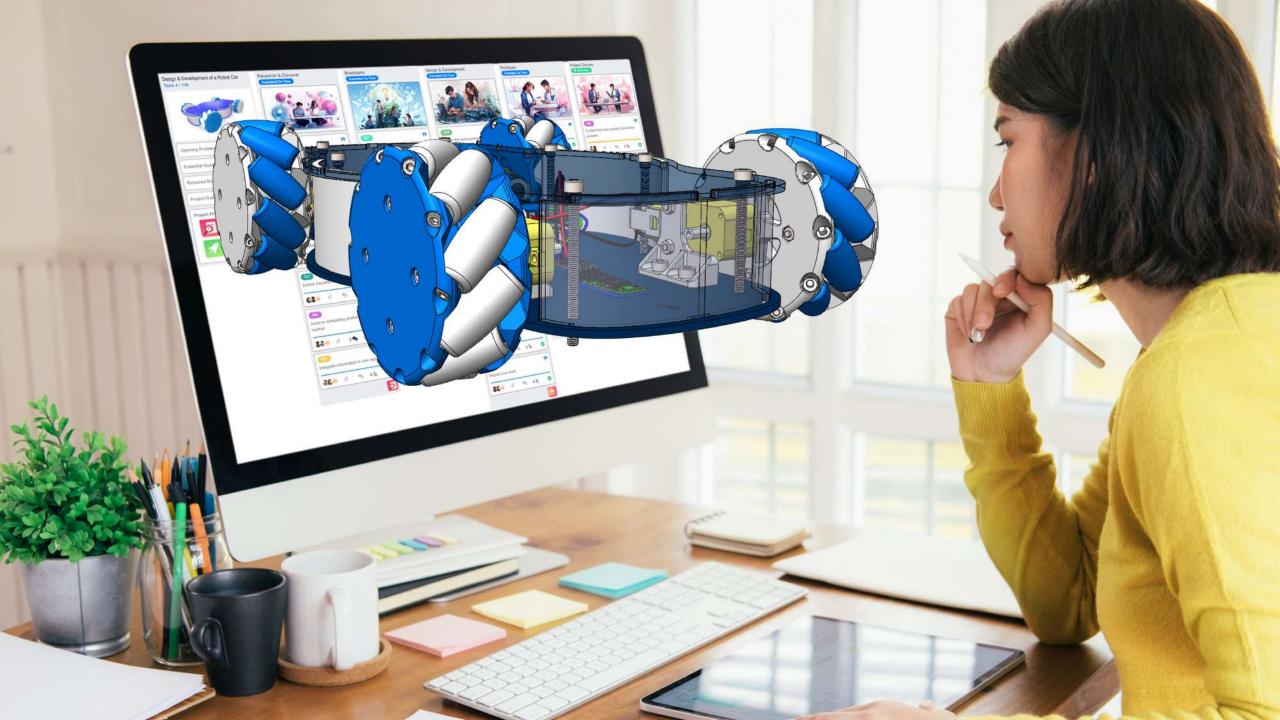




ImmersiView

Where Cutting-Edge Technology Transforms Education into Experience





Designed to Empower Teachers

♪ ProjoTech

Teachers' Private Copy of Projects



Designed to Empower Teachers

♪ProjoTech

Lesson Plans



- Aligned with NGSS
- Standarized Progression
- Teacher's Guide
- Interactive 5 Es
- Extra Resources

Designed to Empower Teachers Teachers' Buddy





Auto Team Formation

Assessment Criteria

Effective Tracking

Project's Templates

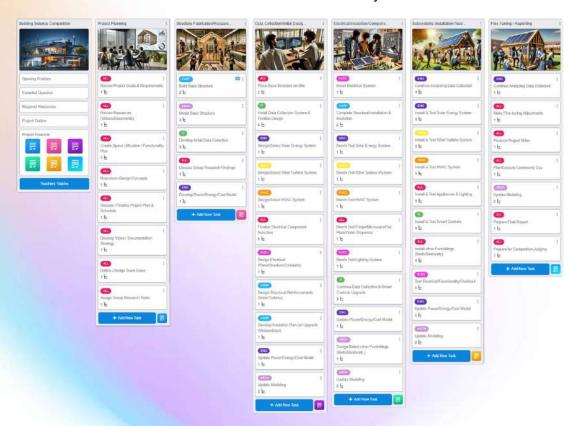




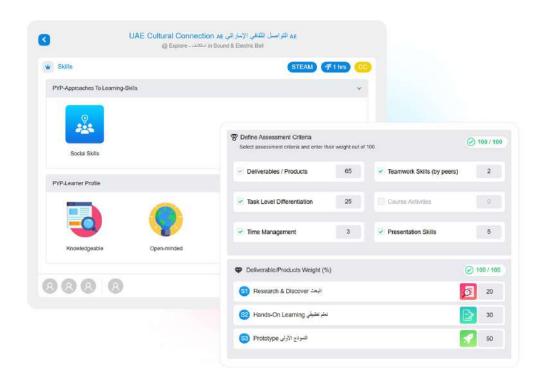
Services

Tailored for Impactful Learning

Customized STEAM Projects



Curriculum Mapping & Customization





Services

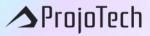
Tailored for Impactful Learning

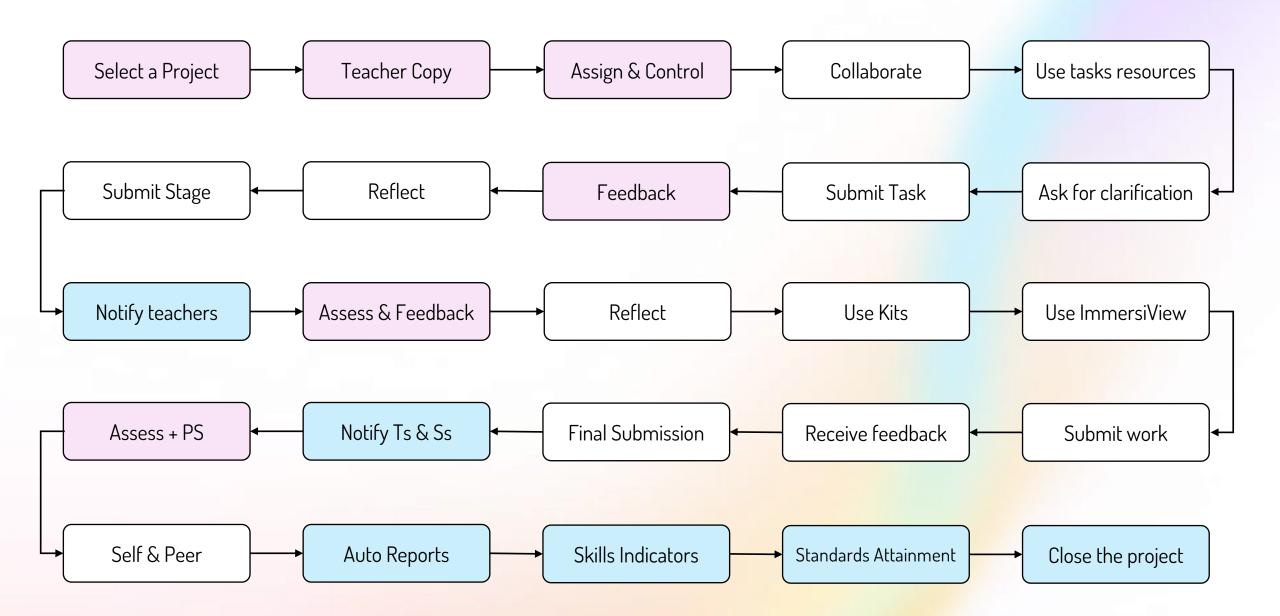
Career-Based Project Learning



Professional Development for Educators







TRACTION AND VALIDATION

1

PROVEN IMPACT AND PARTNERSHIPS

Implementations, Pilots, & Tractions



























Competitions & Advanced Programs







DOEE Building Science Program

Washington DC, USA



Curriculum Development: The building science curriculum is designed carefully to balance academic knowledge, hands-on experience, digital literacy, and exposure to the industry. The delivery of the curriculum differs based on the objective of each activity. Learning objectives are delivered through classroom lessons, STEM project-based learning, STEM hands-on activities, field trips, and/or expert talks.



Energy Efficient Buildings and Sustainable Architecture





Apple Park exemptifies sustainable architecture with its 100% revewbble energy system, natural ventilation, and extensive green spaces

SUSTAINABILITY

Sustainability is based on a simple principle: Everything that we need for our survival and well-being depends, either directly or indirectly, on our natural environment. To pursue sustainability is to create and maintain the conditions under which humans and nature can exist in productive harmony that permit fulfilling the social, economic, environmental and other requirements of present and future generations.

ENERGY SUSTAINABILITY

Efficiency and conservation are essential elements of energy sustainability—the principle that each generative should fulfil its energy needs without hindering future generations' ability to do the same. Sustainability emphasizes long-term energy strategies and policies that secure enough energy for both present and future needs. This approach also involves investing in research and development for advanced technologies in conventional energy production, promoting the adoption of renewable energy sources, and encouraging environmentally responsible policies and practices.

SUSTAINABLE ARCHITECTURE

Sustainable architecture is an evolving approach to building design that aims to minimize environmental impact while enhancing building performance and occupant comfort. It involves designing and creating buildings that use resources efficiently and work harmoniously with the environment throughout their entire lifecycle—from construction and operation to maintenance, renovation, and demolition.

This approach is especially crucial today as we face climate change, resource depletion, and a growing demand for environmentally responsible solutions. Sustainable architecture addresses these challenges by prioritizing energy efficiency, resource conservation, and long-term durability, ultimately promoting a healthier environment and a better quality of life for occupants.



DEVELOPMENT GOALS

Sustainable architecture contributes to creating eco-friendly urban spaces, reducing the carbon footprint of cities, and enhancing the well-being of their inhabitants.

PRINCIPLES OF SUSTAINABLE ARCHITECTURE

- Energy Efficiency: Reducing energy consumption through design strategies like passive solar design, energy-efficient appliances, advanced insulation materials and renewable energy sources.
- Water Efficiency: Using water-saving fixtures and rainwater harvesting systems to reduce water usage and manage stormwater effectively.
- Sustainable Site Planning: Choosing building locations and landscaping methods that reduce environmental impact, such as minimizing disruption to the ecosystem and promoting biodiversity.
- Enhanced Building Designs: Designing buildings that maximize natural light and ventilation to reduce the need for artificial lighting and air conditioning.
- Materials and Resources: Using sustainable, low-impact materials that are renewable, recycled, or locally sourced to lower the building's carbon footprint.
- Indoor Environmental Quality: Prioritizing air quality, lighting, acoustics, and thermal comfort to create
 a healthy, productive space for occupants.
- Waste Reduction: Minimizing waste throughout the building's lifecycle, from construction to demolition, through practices like recycling, reusing materials, and designing for durability.
- Resilience and Adaptability: Designing structures that can withstand climate changes, natural disasters, and evolving needs, ensuring long-term sustainability.

Sustainable architecture is not just an option but a necessity in today's construction and design industries. As future architects, engineers, and planners, embracing and advancing sustainable practices will be essential in addressing the complex challenges of our time, including global warming, climate change, resource scarcity, and urban growth. Energy Efficient Buildings and Sustainable Architecture WHAT IS BUILDING SCIENCE



Building science is a field of study used by architects and builders to improve how buildings are designed and constructed.

It combines knowledge from material science (like understanding properties of brick, wood, and insulation), thermodynamics (how heat and pressure work), and mechanical engineering (covering airflow and heating systems) to ensure that every part of a building works well together and with the environment.

This science helps create sustainable and energy efficient buildings, making sure they are comfortable, durable, and have good air quality, while also being mindful of their environmental impact.

Building science guides decisions about the materials and construction methods used, aiming to enhance the living conditions inside buildings throughout their lifetime.



Career in Green Buildings

ARCHITECTURAL ENGINEER

Architectural engineers combine practical skills and theoretical knowledge to design efficient buildings and systems. Their goal is to create structures that are sustainable, strong, cost-effective, and ensure the safety, health, comfort, and productivity of the people who use them.



Check Your Understanding

Multiple Choice Question

Which of the following is a core principle of sustainable architecture?

- a. Increased energy consumption
- b. Enhanced indoor environmental quality
- c. Higher waste production
- d. Using non-renewable resources

True or False

- Sustainable architecture only focuses on energy efficiency.
- Sustainable architecture aims to reduce a building's environmental impact while improving occupant comfort and well-being.
- Sustainable architecture primarily focuses on the efficient use of resources during the construction phase only.

13 Module 1. Introduction to Building Science Lesson 1. Energy Efficient Buildings and Sustainable Architecture 14 15 Module 1. Introduction to Building Science Lesson 1. Energy Efficient Buildings and Sustainable Architecture 16



TRACTION AND VALIDATION

PROVEN IMPACT & PARTNERSHIPS

More than 80 Schools (+ 1400 students) around the world



FINANCIAL MODEL



SUSTAINABLE GROWTH THROUGH SUBSCRIPTION



Powerful Differentiation features

Advanced Assessment Engine

Master Projects

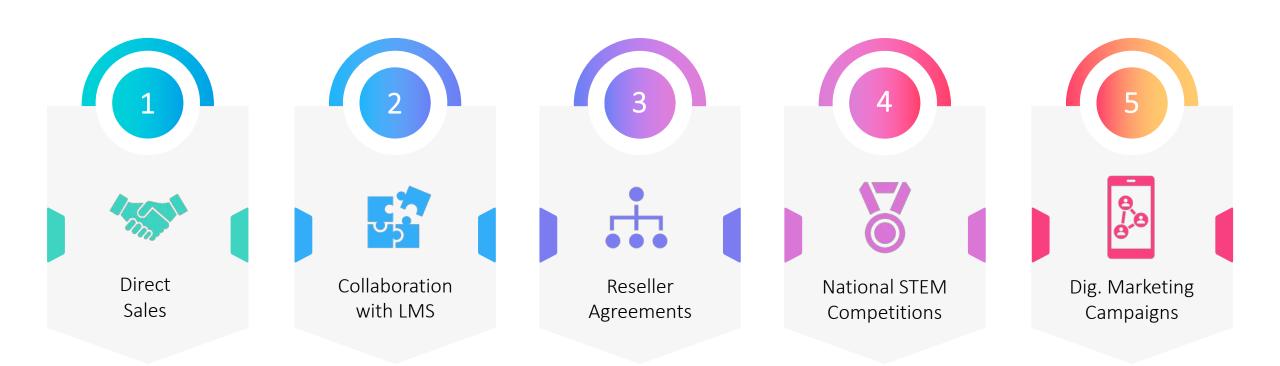




MARKETING & GROWTH STRATEGY



CUSTOMER ACQUISITION



FINANCIAL MODEL



KEY ASSUMPTIONS



FINANCIAL MODEL

1

GROWTH, CASH FLOW PROJECTIONS

		Y1	Y2	Y3	Y4	Y5
Milestones in the year		Direct Approach in UAE Only	Direct Approach in UAE & Reseller in SA	Direct Approach in UAE & Reseller in SA	Direct Approach in UAE & Reseller in SA &US	Direct Approach in UAE & Reseller in SA &US
Price Reduction Through the years			95 %	90 %	85 %	80 %
Market Share in UAE (Direct Approach)		1.3%	4.1%	8.9%	12.45%	14.75%
Market Share (Reseller Approach)			1.4%	3.5%	1.16%	2.4%
TOTAL REVENUE (USD)		476,437	1,735,742	4,974,508	14,093,207	23,719,008
TOTAL EXPENSES (USD)		637,138	1,115,692	1,944,509	2,970,784	3,811,942
Seed Fund – Investment Activities (USD)	3,000,000					
NET CASH FLOW (USD)	(3,000,000)	(160,701)	620,050	3,029,999	11,122,423	19,907,065

Expected Return of Investment	12 %		
Net Present Value (NPV)	17,871,815		
Internal Rate of Return (IRR)	76 %		

FINANCIAL PROJECTIONS

SENSITIVITY ANALYSIS

		DEMAND CHANGE (No. Schools)								
		-20.0%	-15.0%	-10.0%	BASE	10.0%	15.0%	20.0%		
PRICE CHANGE	%02	7,601,737	8,480,758	9,359,780	11,117,823	12,875,866	13,754,888	14,633,909		
	%08	9,419,541	10,406,782	11,394,023	13,368,504	15,342,985	16,330,226	17,317,467		
	%06	11,237,346	12,332,806	13,428,265	15,619,185	17,810,104	18,905,564	20,001,024		
	BASE	13,055,150	14,258,829	15,462,508	17,869,866	20,277,224	21,480,903	22,684,581		
	110%	14,872,955	16,184,853	17,496,751	20,120,547	22,744,343	24,056,241	25,368,139		
	120%	16,690,760	18,110,877	19,530,994	22,371,228	25,211,462	26,631,579	28,051,696		
	130%	18,508,564	20,036,900	21,565,237	24,621,909	27,678,581	29,206,917	30,735,254		

NPV in USD

The Power of

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Empowering Future Innovators















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