

**KIDS WORLD SCHOOL, NAGPUR**  
**SESSION – 2026-27**  
**CLASS – IX**  
**SCIENCE, TECHNOLOGY, ENGINEERING, AND**  
**MATHEMATICS**

Week	1	2	3	4
Month - 1	Intro & Group Division	Project - Solar Panels Follow the Sunlight	Project - Drizzle Detector & Intimation	Project - Smart Curtain System
Month - 2	Presentation/Research Park Connect	Project - Drop Alarm	Competition (Intergroup)	Project - Smart Railway Gate
Month - 3	Project - Voice Controlled Door	Project - Night Lamp	Project - Smart Water Conservation Advisor	Presentation/Research Park Connect
Month - 4	Project - AI-Powered Study Planner	Project - School Data Dashboard	Project - AI Bias Investigator	Assessment
Month - 5	Viva	Project - Fake vs AI-Generated Content Detective	Project - Drone Motors and Propeller Design	Competition (Intergroup)
Month - 6	Project - Drone Frame Design	Presentation/Research Park Connect	Project - Predict Rain Patterns in Your City in 2050	Buffer Week
Month - 7	Project - Derivative Projects	Project - Derivative Projects	Project - Derivative Projects	Buffer Week
Month - 8	Presentation/Research Park Connect	Project - Derivative Projects	Project - Derivative Projects	Project - Derivative Projects
Month - 9	Competition	Assessment	Viva	Startup Ideation
Month - 10	Idea Presentation	Hackathon (National)	Certification Distribution	Vision & Future Activities - Discussions

No.	Topic	Learning Outcome
<b>IoT and Automation (Machine, Design Thinking, &amp; Makers Skill)</b>		
1	Solar Panels Follow the Sunlight	Understand how sensors and motors can be combined to create solar tracking systems that improve energy collection.
2	Drizzle Detector	Learn how rain sensors detect water and trigger automated alerts.
3	Smart Curtain System	Build an automated system that responds to weather conditions without human intervention.
4	Drop Alarm	Explore how tilt sensors detect changes in position and trigger safety alerts.
5	Smart Railway Gate	Understand how multiple sensors can work together to automate transportation safety systems.
6	Voice Controlled Door	Learn how sound-based inputs can be used to control automated systems.
7	Night Lamp	Build an intelligent lighting system that responds to both motion and ambient light conditions.
<b>Artificial Intelligence (AI &amp; CT)</b>		
8	Smart Water Conservation Advisor	Apply the AI project cycle to analyze water usage and propose sustainable conservation solutions.
9	AI-Powered Study Planner	Explore Natural Language Processing and Generative AI to create personalized study plans and learning schedules.
10	School Data Dashboard	Collect, organize, visualize, and interpret school-related data using charts, graphs, and basic analytics.
11	AI Bias Investigator	Investigate how bias can enter AI systems and evaluate the importance of fairness and responsible AI development.
12	Fake vs AI-Generated Content Detective	Analyze digital content and understand the opportunities, risks, and ethical challenges of Generative AI.
<b>Aerospace</b>		
13	Drone Motors and Propeller Design	Understand how motors and propellers generate thrust and enable drone flight.
14	Drone Frame Design	Explore structural design principles used to build stable, lightweight, and efficient drones.
<b>Data Science</b>		
15	Predict Rain Patterns in Your City in 2050	Use data analysis and predictive thinking to explore how climate and environmental patterns may change in the future.