

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

Week	1	2	3	4
Month - 1	Intro & Group Division	Project - Compare Bright and Dim Light	Project - RGB LED Rainbow Light	Project - Emergency Alarm
Month - 2	Presentation/Research Park Connect	Project - Switches & device control	Competition (Intergroup)	Project - Dancing LED
Month - 3	Project - Show Numbers Digitally	Project - AI Story Creator	Project - AI Sprite Designer	Presentation/Research Park Connect
Month - 4	Project - AI Language Explorer	Project - Text Recognition Model Building	Project - Flappy Game	Assessment
Month - 5	Viva	Project - 3D Model Design of Ice Cream	Project - How Things Fly	Competition (Intergroup)
Month - 6	Project - Make Things Move without Touching	Presentation/Research Park Connect	Solar System in AR & VR	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	Opportunity & Analysis (Idea Submission)	Certification Distribution	Vision & Future Activities - Discussions

No.	Topic	Learning Outcome
<b>IoT and Automation</b>		
1	Compare Bright and Dim Light	Understand that light intensity can vary and compare bright and dim sources of light.
2	RGB LED Rainbow Light	Explore how different colors can be created by combining Red, Green, and Blue light.
3	Emergency Alarm	Understand how sound and light can be used together to create warning and alert systems.
4	Switches & device control	Learn how switches control electrical circuits and explore different ways to operate LEDs.
5	Dancing LED	Build simple circuits using multiple LEDs and understand circuit connections using a breadboard.
6	Show Numbers Digitally	Learn how digital displays show numbers
<b>Artificial Intelligence (From AI &amp; CT)</b>		
7	AI Story Creator	Use AI to generate creative stories and explore AI-assisted content creation.
8	AI Sprite Designer	Use AI tools to design characters and digital sprites
9	AI Language Explorer	Explore how AI can translate and communicate in different languages.
10	Text Recognition Model Building	Understand how AI can recognize letters and words from images using text recognition technology.
<b>Game, App Development &amp; 3D Printing</b>		
11	Flappy Game	Develop computational thinking by creating an interactive game using coding blocks.
12	Make Things Move without Touching	Investigate forces such as magnetism and air pressure that can move objects without direct contact.
13	3D Model Design of Ice Cream	Create a simple 3D model and understand how complex objects can be built using basic shapes.
<b>Aerospace</b>		
14	How Things Fly	Explore the basic principles of flight and understand how airplanes stay in the air.
15	Solar System in AR & VR	Explore planets and space using AR & VR & its application