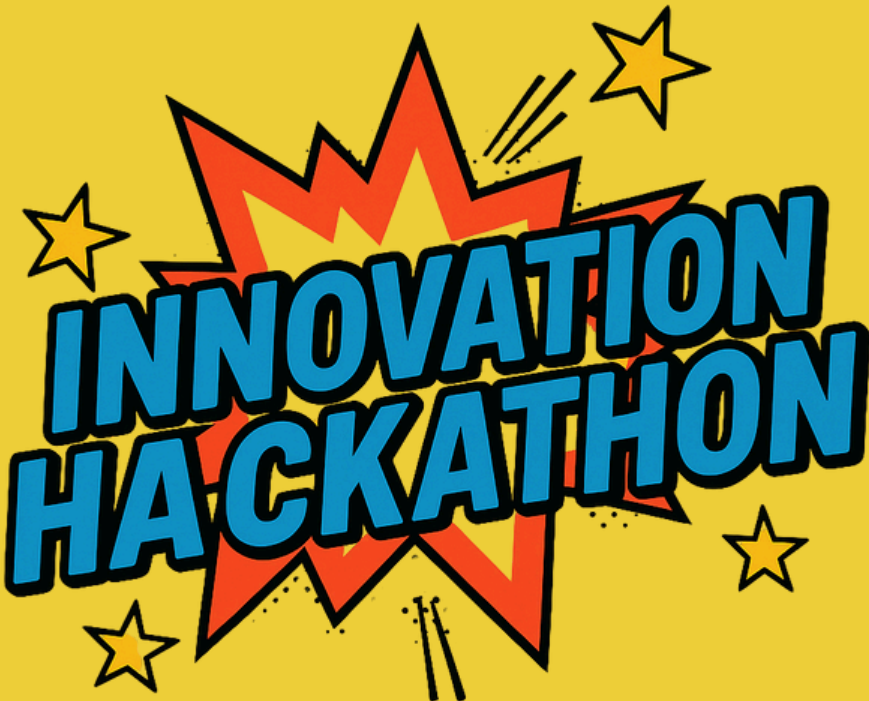







Code for Fun

Bring the energy of innovation straight into your classroom with the **Code for Fun Innovation Hackathon!** Students dive into a **fast-paced, hands-on experience where they learn computational thinking, coding and maker skills** in quick, exciting bursts and then immediately apply them to **solve real-world challenges**.



Hackthon Outline	
Hour-1 Hackathon Kickoff and Challenge Reveal	<ul style="list-style-type: none">Welcome & Reveal hackathon themeStudents form innovation squad: pick roles and responsibilitiesIntroducing Computational Thinking: Adventure ChallengeUnderstanding Design Thinking to help students frame the Design Challenge
Hour-2 Microcontroller Crash Course	<ul style="list-style-type: none">Hands-on with micro:bit (or equivalent)Simple interactive task (LED chase, emoji display)Students work in pairs to collect sticker badges by completing mini-quests. 
Hour-3 Onboard Sensors & Actuators Challenge	<ul style="list-style-type: none">Explore built-in buttons, sensors, sound, LED matrixCreate a reaction-time or step counter gameStudents compete in Kahoot quests to earn points 
Hour-4 External Sensors & Actuators Quest	<ul style="list-style-type: none">Extend learning using external sensors and actuatorsStudents work in pairs to collect sticker badges by building mini projects with sensors and actuators to solve problems posed 
Hour-5 AI & Computer Vision	<ul style="list-style-type: none">Students work in pairs to collect sticker badges by building projects with AI-cameras, computer vision and Machine Learning to solve real-world problemsFun image-recognition activity (Teachable Machine or CreateAI)Discuss real-world uses, dangers of AI, AI Bias and responsible use of AI
Hour-6 Theme Kit & Special Components Exploration	<ul style="list-style-type: none">Introduce thematic and advanced sensors/actuators from theme kitBrainstorm how thematic sensors/actuators could be used for the challenge
Hour-7 Design Thinking Sprint	<ul style="list-style-type: none">Quick empathy exercise (Create AI personas and interview them)Define “How Might We” statementsInnovation Squads earn the Design Thinking Dynamo badge by generating an Idea Map. 
Hour-8 to 9 Hack Build Sprint (2 hrs)	<ul style="list-style-type: none">Innovation Squad begin building with kit, sensors and codeInstructors circulate to coach and guideTest prototype and Collect peer feedback in a gallery walk.Earn the Prototype Pro badge by Iterating and refining their prototype. 
Hour-10 Pitch and Celebrate!	<ul style="list-style-type: none">Prepare a 2-minute pitch with demoPresent to peers/teachers/judgesAwards: Best Design, Best Tech Use, Best Teamwork

Programme Highlights:

- Students take on exciting challenges and earn collectible badges along the way.
- Activities are differentiated for G1-G3 groups to match their learning levels.
- Students engage and collaborate using the Padlet digital platform. All learning materials including instructional videos are pre-loaded here.
- Top three student teams recognised with prizes for Best Use of Technology, Best Design, and Best Teamwork
- Hardware kits and 10-hours training are 100% sponsored by IMDA.



www.tinyurl.com/cffinfo2026

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 - Project Theme Kits
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