THE SPACE-TECH Camp
powered by
LAB OF FUTURE
Be Curious

EXPO CITY DUBAI
CAMPS
SUMMER EDITION

SPACE-TECH SUMMER CAMP ACTIVITIES

JUNIOR CADETS (AGES 6–10)

ACTIVITIES

CosmoCatchers
Play a game using sensors and lights where players "chase" star targets.

Mini Innovators Lab
Use Makey Makey boards to turn everyday objects into touch interfaces.

Rover Rangers
Navigate a model rover through a course mimicking Mars missions.

Gravity Racers
Build a marble roller coaster with loops, drops, and curves using paper.

Rocket Lander
Design a lander to protect a payload (egg, ball) when dropped from height.

SpanMasters
Build the strongest bridge using limited materials like straws or sticks.

ACTIVITIES

STEM Escape Room Challenge
Solve science and engineering puzzles to escape a themed room.

Parachute
Design and test parachutes that slow down falling objects.

Balloon Fighting robot
Design a robot that pops opponent balloons in a fun, competitive challenge.

Bubble-Powered Rocket!
Launch a small rocket using chemical reactions that produce gas.

AI Experiments
Interact with simple AI tools (like Teachable Machine) to understand how AI works.

Marshmallow Tower Contest
Build the tallest tower possible using spaghetti and marshmallows.

ACTIVITIES

Glow-in-the-Dark Art
Create art using glowing paints and lights in a dark room.

Spin Art Robot
Construct a robot that creates art by spinning paper and applying paint.

Electronics Paper Craft Workshop
Combine LED circuits with folded paper to make interactive artwork.

DIY Lava Lamps
Mix oil, water, and tablets to create a bubbly, moving lamp.

Squishy Circuits
Build circuits using conductive dough to power LEDs and motors.

Paper Hand with Strings
Create a paper hand that moves like a real one using strings and pulleys.

DIY Hovercrafts
Build a mini hovercraft using a balloon and CD to glide over surfaces.

PLEASE NOTE: This schedule is across the 2 weeks Camp

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SPACE-TECH SUMMER CAMP ACTIVITIES

SENIOR CADETS (AGES 11–14)

ACTIVITIES

NeuroBot Control
Robot Control Use hand gestures via sensors to wirelessly control a robot's movement.

Code & Conquer
Create a simple game using Python programming language.

BattleBot Arena
Build and control a robot that plays soccer using sensors and motors.

CircuitCraft Lab
Use Makey Makey boards to turn everyday objects into touch interfaces.

SkyRider Missions
Program flight paths and commands for a mini drone using block coding.

Crew Docking
Simulate docking a space capsule with a space station using timing and logic.

ACTIVITIES

Balloon fighting robot
Design a robot that pops opponent balloons in a fun, competitive challenge.

Glider
Build and test paper or foam gliders for distance and accuracy..

STEM Escape Room Challenge
Solve science and engineering puzzles to escape a themed room.

Bubble-Powered Rocket!
Launch a small rocket using chemical reactions that produce gas.

Climbing Robot
Build a small robot that climbs vertically using motors and gripping arms.

AI Experiments
Interact with simple AI tools (like Teachable Machine) to understand how AI works.

ACTIVITIES

Mystery Box STEM Challenge
Open a box of random materials and build a STEM solution within time limits.

Morse Code
Learn to encode and decode messages using light or sound signals.

Satellite Dish
Build a model satellite dish that reflects and focuses signals (like sound or light).

Build a Mars Rover
Design and build a rover to explore simulated Martian terrain.

Spin Art Robot
Construct a robot that creates art by spinning paper and applying paint.

Paper Hand with Strings
Create a paper hand that moves like a real one using strings and pulleys.

Paper Craft Workshop
Use templates and folding techniques to build 3D paper structures.

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