

CodeX – Coding Challenge

Qualifier Level (Online Quiz)

Mission: Put your logical thinking, programming knowledge, and space science awareness to the test.

Eligibility:

- **Grades 6 & 7:** Scratch + Space Basics
- **Grades 8 & 9:** Python + Space Science

Format:

- **Online Multiple-Choice Quiz**
- Covers basics of coding (as per grade level) and general space-related science
- Timed and monitored quiz to ensure fair play
- Conducted via secure online platform

Selection Criteria:

- Top-performing teams with good score will qualify for the **Finale Level**
- Results will be announced on the Bharat Teck League website

Finale Level (Offline Coding Challenge)

Mission: Solve a Space Problem through Code for a space-themed task, announced on the spot.

Eligibility:

Teams who qualify from the online round

Challenge Format:

- **Grades 6 & 7:**
 - Create a **Scratch game or story**

- The exact theme/story will be revealed at the venue
 - Time-bound challenge (1.5-2 hours)
- **Grades 8 & 9:**
 - Solve a **Python-based problem** on the spot
 - Focus on logic, clean coding, and efficiency
 - The exact task/problem statement will be revealed at the venue
 - Time-bound challenge (1.5-2 hours)

Requirements:

- **Each team must bring at least one laptop** with relevant tools installed
 - Scratch (offline version or browser-compatible)
 - Python (IDLE / VS Code / Thonny or any other IDE)

Judging Criteria:

- Creativity & Innovation
- Logic & Problem-Solving
- Completion & Functionality
- Relevance to the given task.

Team Guidelines

- Each team must have a **minimum of 2** and a **maximum of 4** student members.
- All members of the team must be from the **same school**.
- A student can participate in **only one category**.
- Teams must be mentored by a **teacher/coordinator/school representative**.
- Once the team is registered, no modifications to team members are allowed at any level of the competition.
- Teams must arrange their own materials, tools, and laptops as required.

Note: For all competitions, follow size, weight, and software rules mentioned. Any violation may result in disqualification. Ensure all required items (laptop, model, materials) are carried by the participants. Power supply will be provided at the venue.