



# VILLAGE EDUCATIONAL FORCE OF INDIA

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## Process and Organization Building for a Makers Club in Schools in India

Creating a Makers Club in schools is a structured effort requiring clear planning, execution and sustainable organization. The following sections outline the process and the organizational structure to establish and run a successful Makers Club in India schools.



### Vision

To foster creativity, critical thinking, problem-solving and technical skills among school students, enabling them to become innovators and contributors to society.

## 1. Vision and Objectives



### Objectives

1. Introduce students to STEM concepts through hands-on activities.
2. Encourage exploration and understanding of technology and real-world systems.
3. Develop skills like teamwork, leadership, and self-directed learning.
4. Promote the use of local resources and indigenous knowledge.



## 2. Process for Setting Up the Makers Club

### Step 1: Planning and Approval

- ◆ Engage Stakeholders: Present the Makers Club proposal to school authorities, parents, and local community leaders.
- ◆ Obtain Approvals: Secure permissions from the India Education Department and the school administration.
- ◆ Budget Planning: Estimate costs for tools, materials, training and ongoing operations.

### Step 2: Infrastructure and Resources

- ◆ Space Allocation: Designate a classroom or workshop area with adequate lighting, ventilation and safety measures.
- ◆ Procurement of Tools and Kits: Purchase age-appropriate maker kits, tools, electronics and safety equipment.
- ◆ Technology Setup: Install computers with relevant software for coding, 3D modelling and research.

### Step 3: Curriculum Development

- ◆ Activity Planning: Develop a 40-week activity schedule tailored to the students' age and grade level.
- ◆ Local Relevance: Incorporate projects addressing local issues like water conservation, energy efficiency, or waste management.
- ◆ Reverse Engineering: Include the deconstruction of common devices to understand their functioning.

### Step 4: Training and Orientation

- ◆ Facilitator Training: Train teachers and volunteers on maker methodologies, safety and tools usage.
- ◆ Student Orientation: Introduce students to the Makers Club, emphasizing its objectives and benefits.

### Step 5: Pilot and Launch

- ◆ Pilot Phase: Run a pilot session with a smaller group to test the structure and activities.
- ◆ Official Launch: Organize an inaugural event with activities or a mini-exhibition to engage the community.



## 3. Organizational Structure

### Key Roles

#### 1. Club Mentor/Coordinator

- ◆ Oversees operations, acts as a liaison between school management and the club.
- ◆ Ensures alignment with educational goals.

#### 2. Facilitators (Teachers or Volunteers)

- ◆ Conduct weekly sessions and guide students.
- ◆ Manage safety and proper usage of tools.

#### 3. Student Leaders

- ◆ Represent their peers, organize activities and encourage participation.

#### 4. Support Staff

- ◆ Maintain tools and manage inventory.



# Governance Framework

Role	Responsibility	Reporting To
Mentor/Coordinator	Strategy, reporting, and overall supervision	School Principal
Facilitators	Session planning, execution and student guidance	Mentor/Coordinator
Student Leaders	Assisting in project execution and team management	Facilitators
Support Staff	Inventory and tool maintenance	Mentor/Coordinator

## 4. Engagement and Collaboration

### Student Engagement

- ◆ Participation Models: Divide students into groups for hands-on activities, ensuring inclusivity and collaboration.
- ◆ Recognition: Provide badges, certificates, or titles for active participants.

### Community Collaboration

- ◆ Parent Involvement: Invite parents to workshops and exhibitions.
- ◆ Local Partnerships: Partner with local businesses or universities for mentorship and resources.

### Industry and Academia Support

- ◆ Industry Visits: Organize visits to industries or innovation hubs.
- ◆ Guest Lectures: Invite professionals for motivational talks and practical insights.



## 5. Sustainability and Growth

### Funding and Sponsorship

- ◆ Government Grants: Apply for educational grants under schemes like Rashtriya Madhyamik Shiksha Abhiyan (RMSA).
- ◆ Corporate Sponsorships: Partner with companies for CSR initiatives focused on education and innovation.

### Monitoring and Feedback

- ◆ Progress Tracking: Maintain a log of activities, projects and student progress.
- ◆ Feedback Mechanism: Collect feedback from students, parents and teachers for continuous improvement.

### Scalability

- ◆ Expanding Reach: Start with a few schools, then replicate the model across India based on success.
- ◆ Advanced Clubs: Create levels of Makers Clubs (e.g., Beginner, Intermediate, Advanced) for progressive learning.

## 6. Implementation Timeline

Phase	Activities	Duration
Planning and Approval	Stakeholder engagement, approvals	1-2 months
Resource Setup	Infrastructure and procurement	1 month
Training	Facilitator and student training	2 weeks
Pilot and Launch	Pilot sessions and official launch	1 month
Execution	Weekly activities as per schedule	Ongoing



## Conclusion

A well-structured and managed Makers Club can empower students with skills essential for the 21st century. By involving students in creative, hands-on projects and encouraging them to explore real-world challenges, the Makers Club will contribute to a culture of innovation in India's schools.



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