

# ITL PUBLIC SCHOOL

## Active Engagement of Young Minds during Summer Vacations 2026-27

Class: XI

Subject: Entrepreneurship

### Computational Thinking Based Project

#### **Topic: Need for Entrepreneurship in India**

Introduction:

Entrepreneurship is the backbone of India's economic growth (E), driven by innovation, risk-taking, and problem-solving. Students need to analyze the "Need for Entrepreneurship in India" using Computational Thinking (CT).

The Assignment: "Startup Blueprint: Solving India's Micro-Challenges"

Your task is to identify a real-world problem in your local community or India at large.

Select any one of the following topics:

- i. Waste management
- ii. Rural credit access
- iii. Traffic congestion
- iv. Youth unemployment
- v. Local artisan scaling

Design a startup solution using the four pillars of Computational Thinking.

Step-by-Step Project Guide

#### **1. Decomposition (Breaking it Down)**

Before launching a business, you must understand all its moving parts. Break your chosen problem and business idea into smaller, manageable components.

Task: Create a mind map or a table that divides your startup idea into four core segments:

The Target Customer: Who exactly has this problem?

The Resource Requirement: What capital, raw materials, or technology do you need?

The Revenue Model: How exactly will your business make money?

The Barriers to Entry: What government regulations or competitor threats exist?

#### **2. Pattern Recognition (Finding Similarities)**

Successful entrepreneurs don't always reinvent the wheel; they look at trends and what has worked elsewhere to predict future success.

Task: Analyze two existing Indian startups (e.g., Blinkit, Zerodha, Phool, or Physics Wallah).

What patterns did they leverage to scale? (e.g., Did they convert a chaotic unorganized sector into an organized one? Did they use smartphone penetration to reach customers?)

How does your startup idea mimic or adapt these successful market patterns?

### **3. Abstraction (Focusing on What Matters)**

In business, you cannot do everything at once. You must filter out the noise and focus on your Minimum Viable Product (MVP)—the core value your business offers.

Task: Write a concise "Elevator Pitch" (maximum 150 words) for your startup.

Strip away the minor details (like office decor, exact hiring plans, or future marketing campaigns).

Focus strictly on: The Problem, Your Core Solution, and Why it is Unique.

### **4. Algorithmic Thinking (Designing the Step-by-Step Process)**

An entrepreneur needs clear, repeatable processes to scale a business. An algorithm in business is simply a standard operating procedure (SOP).

Task: Create a detailed Flowchart or Step-by-Step Algorithm representing your customer's journey or your supply chain.

Example: User opens app → User uploads dry waste → Algorithm calculates payout → Pickup agent is assigned → Waste collected → Digital payment credited.

Include at least two "decision boxes" (e.g., If the product is damaged → Return to supplier; If the product is intact → Deliver to customer).

### **Project Submission Guidelines**

Format: The project can be submitted as a digital presentation (PPT/Canva, max 10 slides) or a neatly handwritten, creative project file (max 6–8 pages).

Food for Thought: "The best way to predict the future is to create it." — Peter Drucker.  
Look at problems not as complaints, but as business opportunities waiting for a structured solution!