

# Parabolas for Profit

## Day 1: Launch & Quick Start

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Learning Objective:** Understand the project question and key business terms (price, demand, revenue, cost, profit).

### Part 1: The Driving Question

*Rewrite the project's essential question in your own words (one sentence).*

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### Part 2: Key Business Vocabulary

*Complete each sentence with your own understanding. No wrong answers today!*

- **Revenue:** "Money from \_\_\_\_\_"
- **Cost:** "Money spent on \_\_\_\_\_"
- **Fixed Cost:** "Stays same even if \_\_\_\_\_"
- **Variable Cost:** "Changes when \_\_\_\_\_"
- **Profit:** "Shows if we're \_\_\_\_\_ or \_\_\_\_\_"
- **Demand:** "How many buy at price \_\_\_\_\_"
- **Break-Even:** "Profit equals \_\_\_\_\_"
- **Price:** "Amount charged for \_\_\_\_\_"

### Part 3: Project Goals & Initial Thinking

**a. Project Goal:** What mathematical problem are we solving? (one sentence)

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**b. Product Selection:** Choose your product (pizza, bubble tea, etc.)

My product: \_\_\_\_\_ Why? \_\_\_\_\_

**c. Price-Demand Prediction:** If price goes up, demand probably...

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### Part 4: Reflection (1 minute)

1. One thing I learned today: \_\_\_\_\_

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2. One question I still have: \_\_\_\_\_

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<b>Coming Next:</b> Collect price/demand data and build a model with technology.
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