

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).

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: _____

Coming Next: Collect price/demand data and build a model with technology
