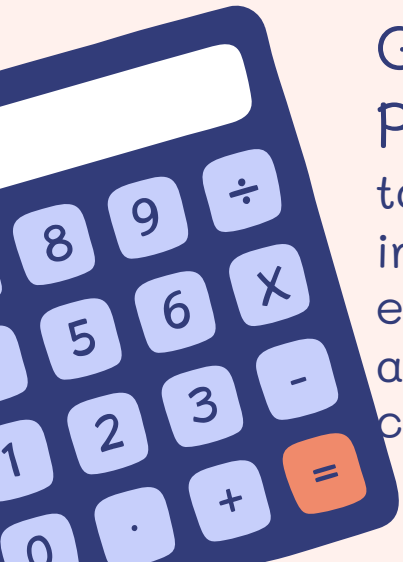




# Mathematics of a Small Food Truck Business

Grade: 4th



**Purpose:** The aim is to combine business and math education to promote understanding and respect for cultures, tackle inequality among students, and establish a creative learning environment. This will be achieved by engaging in hands on activities, collaborating on projects, and ending with an event called Community Food Truck Day.

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# Standards:

## Mathematics 4.MD.A.2 Measurement and Data

“Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.”

# Objectives:

- **Students will be able to identify and explain fundamental concepts related to running a small food business(Profit, Expenses, and Inventory)**
- **Students will be able to use mathematical principles to perform calculations involved in making a profit, expense management, and financial tracking for their fictional food businesses.**
- **Students will be able to research and explore local food trucks and cart vendors, learning about different foods in their community.**
- **Students will be able to appreciate and celebrate diverse cultural foods, recognizing the significance of different cultures.**
- **Students can effectively collaborate within their groups, demonstrating teamwork to execute their food business plans successfully.**

# Learning Activities

- Day 1-2: Introduction to Business Concepts and Basic Calculations
- Day 3-4: Simulation of Business Operations
- Day 5-6: Fundraising Activities and Collaborating with Local Food Businesses
- Day 7-8: Group Formation and Cultural Exploration
- Day 9: Community Food Truck Day

# Assessments

Assessment Rubric	Criteria	Rubric Levels
Understanding of Business Concepts	Ability to identify and explain fundamental business concepts	4: Great understanding with accurate explanations. 3: Good grasp with clear and accurate explanations 2: Basic understanding of some mistakes 1: Limited understanding, struggles to explain
Application of Mathematical Principles	Use math principles for expense tracking	4: High proficiency in various scenarios 3: Solid application with a good level of skill 2: Basic application with a bit of errors 1: Limited application and struggles with understanding
Research and Exploration of Local Businesses	Research and present knowledge about local food businesses	4: Thorough research, detailed understanding 3: Comprehensive research with accurate info 2: Basic research skills with some gaps 1: Limited research, struggles with understanding
Group Collaboration and Communication	Effective collaboration and teamwork	4: Seamless collaboration, significant contribution 3: Solid collaboration, positive contributions 2: Basic collaboration skills, some challenges 1: Limited collaboration, struggles to contribute
Community Food Truck Day Event	Successfully explore other cultures and assist in expense tracking	3: Successful execution, explored many cultures 2: Partial Success, explored some cultures 1: Limited Success, little cultural exploration

# Addressing Inequality

- Cultural Inclusivity
- Accommodation for English Learners
- Financial Equity
- Community Support
- Promotion of Unity and Understanding

