

Unit #5: Buying Goods and Services

Content Area: **Math**
Course(s):
Time Period:
Length: **5 weeks**
Status: **Published**

State Mandated Topics Addressed in this Unit

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N/A	N/A

Buying Goods and Services

Learning Objectives

- Objective 1 - Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
- Objective 2 - Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.
- Objective 3 - Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.
- Objective 4 - Solve simple rational and radical equations in one variable and give examples showing how extraneous solutions may arise.
- Objective 5 - Evaluate the social and economic implications of privacy in the context of safety, law, or ethics

Essential Skills

- Essential Skill 1 - Create equations that represent relationships between quantities.
- Essential Skill 10 - Apply a rational decision-making process to personal buying decisions
- Essential Skill 11 - Identify goods and services and distinguish between the two.
- Essential Skill 12 - Apply comparison shopping practices and return policies.
- Essential Skill 13 - Identify alternative sources for purchases (on-line, retail stores, catalogs).
- Essential Skill 14 - Recognize that laws are available to protect the rights of consumers.
- Essential Skill 15 - Discuss various ways competition among buyers helps the consumer.
- Essential Skill 16 - Describe reasons why there are variances in price for a given item bought from different providers.

- Essential Skill 17 - Use reliable consumer resources to collect information for making buying decisions about durable and nondurable goods.
- Essential Skill 18 - Analyze and evaluate advertising claims.
- Essential Skill 19 - Investigate current types of consumer fraud, including on-line scams.
- Essential Skill 2 - Graph equations on axes with labels and scales.
- Essential Skill 20 - Describe consumer rights, responsibilities, and remedies, give examples of each.
- Essential Skill 21 - Compare the costs and benefits of purchasing, leasing, and renting.
- Essential Skill 22 - Identify and describe consumer assistance services provided by public and private organizations (e.g. government, the Better Business Bureau, and manufacturers).
- Essential Skill 23 - Calculate the costs of utilities, services, maintenance, and other expenses involved in independent living.
- Essential Skill 24 - Examine the impact of advertising and marketing on consumer demand and decision-making in the global marketplace.
- Essential Skill 25 - Research consumer advocacy groups that address consumer rights and responsibilities and describe how an individual can participate.
- Essential Skill 26 - Describe the role that supply and demand and market structure play in determining the availability and prices of goods and services.
- Essential Skill 3 - Represent solutions of equations, inequalities, and systems to real-world applications.
- Essential Skill 4 - Interpret solutions as viable based on the constraints of the application.
- Essential Skill 5 - Explain the steps to solving an equation.
- Essential Skill 6 - Construct a viable argument to justify a solution method.
- Essential Skill 7 - Solve simple rational and radical equations.
- Essential Skill 8 - Identify extraneous solutions.
- Essential Skill 9 - Explain how a consumer can identify and report fraudulent behavior and practices observed on the Internet.

Standards

MATH.9-12.A.CED.A.2	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
MATH.9-12.A.CED.A.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context.
MATH.9-12.A.REI.A.1	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.
MATH.9-12.A.REI.A.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.
TECH.9.4.2.DC.3	Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).

Instructional Tasks/Activities

- <https://educators.brainpop.com/bp-jr-topic/goods-and-services/>

- <https://www.edutopia.org/pdfs/stw/edutopia-stw-financial-lit-ariel-lessonplan-goods-services.pdf>
- <https://www.thetruckersreport.com/library/lesson-plans-goods-and-services-and-how-we-get-them/>

Assessment Procedure

- Classroom Total Participation Technique
- Classwork
- DBQ
- Essay
- Exit Ticket/Entrance Ticket/Do Now
- Journal / Student Reflection
- Kahoot
- Other named in lesson
- Peer Review
- Performance
- Problem Correction
- Project
- Quiz
- Rubric
- Teacher Collected Data
- Teacher Observation
- Test
- Verbal Assessment
- Worksheet

Recommended Technology Activities

- Appropriate Content Specific Online Resource
- Chromebook
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs
- Google Forms
- Google Slides
- Kahoot
- MagicSchool AI
- Other- Specified in Lesson
- Quiziz

- Screencastify

Accommodations & Modifications & Differentiation

Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

Gifted and Talented

- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- Peer Partner Learning
- Problem Solving
- Structured Controversy
- Think, Pair, Share
- Tutorial Groups

Instruction/Materials

- alter format of materials (type/highlight, etc.)
- color code materials
- eliminate answers
- extended time
- extended time
- large print
- modified quiz
- modified test
- Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only
- Other (specify in plans)
- other- named in lesson
- provide assistance and cues for transitions
- provide daily assignment list
- read class materials orally
- reduce work load

- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

Environment

- alter physical room environment
- assign peer tutors/work buddies/note takers
- assign preferential seating
- individualized instruction/small group
- modify student schedule (Describe)
- other- please specify in plans
- provide desktop list/formula

Honors Modifications

Resources

- <https://www.ixl.com>
- <https://www.khanacademy.org/>