

Unit #2 Earning and Reporting Income

Content Area: **Math**
Course(s):
Time Period:
Length: **4 weeks**
Status: **Published**

State Mandated Topics Addressed in this Unit

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N/A	N/A

Earning and Reporting Income

Learning Objectives

- Objective 1 - Interpret expressions that represent a quantity in terms of its context. Interpret parts of an expression, such as terms, factors, and coefficients.
- Objective 2 - Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.
- Objective 3 - Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
- Objective 4 - 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 5 - Solve simple rational and radical equations in one variable and give examples showing how extraneous solutions may arise.
- Objective 6 - 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 7 - Analyze and critique various sources of income and available resources (e.g., financial assets, property, and transfer payments) and how they may substitute for earned income.
- Objective 8 - Identify transferable skills in career choices and design alternative career plans based on those skills.
- Objective 9 - Assess and modify a personal plan to support current interests and postsecondary plans.

Essential Skills

- Essential Skill 1 - Interpret parts of expressions including terms, factors, and coefficients.
- Essential Skill 10 - Identify extraneous solutions.

- Essential Skill 11 - Represent solutions of equations, inequalities, and systems to real-world applications.
- Essential Skill 12 - Interpret solutions as viable based on the constraints of the application. Example: cannot have negative time.
- Essential Skill 13 - Differentiate between earned and unearned income.
- Essential Skill 14 - Identify sources of unearned income (e.g. transfer payments and gifts).
- Essential Skill 15 - Analyze how career choice, education, and skills affect income and goal attainment.
- Essential Skill 16 - Analyze the characteristics and requirements of occupations of interest, including entrepreneurial opportunities.
- Essential Skill 17 - Identify various ways people earn a living.
- Essential Skill 18 - Distinguish between income and wealth.
- Essential Skill 19 - Calculate Net Pay
- Essential Skill 2 - Interpret expressions in terms of context.
- Essential Skill 20 - Explain the effect on take-home pay of changing allowances claimed on an "Employees' Withholding Allowance Certificate" (IRS Form W-4).
- Essential Skill 21 - Discuss how personal choices concerning human capital (experiences, technology, educational/training, and other factors) influence income.
- Essential Skill 22 - Analyze and prepare a federal and state income tax return.
- Essential Skill 23 - Compare and contrast compensation packages that include varying levels of wages and benefits.
- Essential Skill 3 - Create and solve equations.
- Essential Skill 4 - Create and solve inequalities.
- Essential Skill 5 - Create an equation that represents relationships between quantities.
- Essential Skill 6 - Graph equations on axes with labels and scales.
- Essential Skill 7 - Explain the steps to solving an equation.
- Essential Skill 8 - Construct a viable argument to justify a solution method.
- Essential Skill 9 - Solve simple rational and radical equations.

Standards

MATH.9-12.A.CED.A.1	Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.
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.
MATH.9-12.A.SSE.A.1.a	Interpret parts of an expression, such as terms, factors, and coefficients.

WRK.9.2.12.CAP.5	Assess and modify a personal plan to support current interests and post-secondary plans.
WRK.9.2.12.CAP.6	Identify transferable skills in career choices and design alternative career plans based on those skills.
WRK.9.2.12.CAP.14	Analyze and critique various sources of income and available resources (e.g., financial assets, property, and transfer payments) and how they may substitute for earned income.

Instructional Tasks/Activities

- <http://financeintheclassroom.org/teacher/standard2.shtml>
- http://pbskids.org/itsmylife/games/mad_money_flash.html
- https://www.practicalmoneyskills.com/teach/lesson_plans/grades_9_12

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
- Quizizz
- 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/>