

01_ Gross Pay

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

General Overview, Course Description or Course Philosophy

The New Jersey Student Learning Standards (NJSLS) are rigorous and robust. The standards emphasize not only procedural skill but also conceptual understanding to ensure students are learning and absorbing the critical information needed to succeed mathematically now and in the future. The standards encourage students to solve real-world problems and define what students should understand and be able to do in their study of mathematics. Mastery of the standards requires students to justify, in a way that is appropriate the student's mathematical maturity, why a particular mathematical statement is true or where a mathematical rule comes from. Mathematical understanding and procedural skills are equally important, and both are accessible using mathematical tasks of sufficient richness.

In Foundations of Consumer Math, students will apply mathematical knowledge and skills to real-world math situations. Topics in this course include gross and net pay, creating a budget, checking and savings accounts, cash purchases, credit cards and loans, and vehicle and housing costs.

OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

Students will understand:

- In most circumstances, income is different than earned money
- Calculating earned money from income can be complex
- Employees must account for difference in income and earned money in developing a budget.

Essential Questions:

- How does gross income differ from net income?
- How does a pay stub serve as a record of earnings and deductions?

CONTENT AREA STANDARDS

N.RN

A. Extend the properties of exponents to rational exponents

N.Q

A. Reason quantitatively and use units to solve problems

MA.N-Q.A.1	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.
FIN.9-12.9.4.12.F.4	Solve mathematical problems to obtain information for decision-making in financial settings.
PFL.9.1.K12.P.2	Attend to financial well-being.

RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)

PFL.9.1.K12.P.5	Utilize critical thinking to make sense of problems and persevere in solving them.
PFL.9.1.K12.P.8	Use technology to enhance productivity increase collaboration and communicate effectively.

STUDENT LEARNING TARGETS

Refer to the 'Declarative Knowledge' and 'Procedural Knowledge' sections.

Declarative Knowledge

Students will understand that:

- There are various types of determining gross income: straight-time pay, overtime pay, salary, piecework, commission.
- Different jobs/careers will determine the gross pay in various ways
- There are various factors that will have an impact on earning potential

Procedural Knowledge

Students will be able to:

- Calculate straight-time pay
- Calculate overtime pay
- Calculate piecework pay
- Calculate pay based on commission

- Calculate salary (annual, monthly, semimonthly, biweekly, weekly)
- Analyze the relationship between various careers and personal earning goals

EVIDENCE OF LEARNING

Refer to the 'Formative Assessments' and 'Summative Assessments' sections.

Alternate Assessments

Portfolios

Verbal Assessment (instead of written)

Multiple choice

Modified Rubrics

Performance Based Assessments

Formative Assessments

- Entrance and exit tickets
- Teacher created homework and classwork
- Class discussions
- Observations/student monitoring (checklists/anecdotal records)

Summative Assessments

- Quizzes (skill-based and conceptual)
- Unit Test
- Unit Project (Job/Salary Research)

RESOURCES (Instructional, Supplemental, Intervention Materials)

- Mathworksheetsland.com
- [Mathematics with Business Applications](#)
- [Putting Your Paycheck to Work Activity](#)

INTERDISCIPLINARY CONNECTIONS

- Information writing (ELA)
- Researching based writing (Technology/Multimedia)
- Utilize critical thinking to make sense of problems and persevere in solving them. (Career Readiness)
- Use technology to enhance productivity. (Career Readiness)

ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS

See link to Accommodations & Modifications document in course folder.