

# 09\_ Housing

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

## **General Overview, Course Description or Course Philosophy**

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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 to the student's mathematical maturity, why a particular mathematical statement is true or where a mathematical rule comes from. Mathematical understanding and procedural skill 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**

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Students will understand:

- The costs involved in purchasing and maintaining a house extend beyond the accept offer price.
- Buyers must consider all costs (insurance, interest, legal fees, inspections, etc.) involved in purchasing and maintaining a house to avoid debt.

Essential Questions:

- What are the costs involved in owning and maintaining a home?
- How does renting compare to owning a home?

## **CONTENT AREA STANDARDS**

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**N.RN**

**A. Extend the properties of exponents to rational exponents**

**N.Q**

**A. Reason quantitatively and use units to solve problems**

**N.CN**

**A. Perform arithmetic operations with complex numbers**

**B. Represent complex numbers and their operations on the complex plane**

**C. Use complex numbers in polynomial identities and equations**

PFL.9.1.12.CDM.2	Compare and contrast the advantages and disadvantages of various types of mortgages.
PFL.9.1.12.RM.3	Compare the cost of various types of insurance (e.g., life, homeowners, motor vehicle) for the same product or service, strategies to lower costs, and the process for filing an insurance claim.
PFL.9.1.12.RM.6	Differentiate the costs benefits and features (e.g., riders, deductibles, umbrella policies) of renter's and homeowner's insurance.

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

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9.1.12.CDM.1: Identify the purposes, advantages, and disadvantages of debt. • 9.1.12.CDM.2: Compare and contrast the advantages and disadvantages of various types of mortgages

PFL.9.1.K12.P.2	Attend to financial well-being.
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.
FIN.9-12.9.4.12.F.4	Solve mathematical problems to obtain information for decision-making in financial settings.

**STUDENT LEARNING TARGETS**

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

**Declarative Knowledge**

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Students will understand that:

- Specific terminology is associated with housing costs: market value, rate of assessment, tax rate, assessed value, and utility costs.
- Mortgages account for the totality of housing purchase fees and can be decomposed by understanding the allocation of the monthly payment toward principal, interest, and escrow.

## **Procedural Knowledge**

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Students will be able to:

- Compute the mortgage loan amount, total amount paid, and total interest charged.
- Analyze the closing costs involved in purchasing a house.
- Determine projected monthly cost of owning a home including mortgage payment, insurance, property taxes, utilities, etc.

## **EVIDENCE OF LEARNING**

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

## **Alternate Assessments**

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- Portfolios
- Verbal Assessment (instead of written)
- Multiple choice
- Modified Rubrics
- Performance Based Assessments

## **Formative Assessments**

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

## **Summative Assessments**

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- Quizzes (skill based and conceptual)
- Unit Test
- Unit Project (Housing Project)

## **RESOURCES (Instructional, Supplemental, Intervention Materials)**

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Mathworksheetsland.com

### [DCMP Videos](#)

BizKids Videos and Lesson Plans

## **INTERDISCIPLINARY CONNECTIONS**

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- 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**

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See link to Accommodations & Modifications document in course folder.