

June 2004

High School Mathematics

Applied Personal Mathematics

This course integrates the review of basic math skills with practical knowledge students need to become informed financial decision-makers. Areas covered will include wages, taxes, banking services, credit card buying, housing and automobile purchases.

Learning Opportunities

Special project (Stock Market Research) and class presentations, group work and discussion, Internet job searches.

Standards

Fields of Knowledge: Mathematics, Science, Technology
Inquiry, Experimentation, and Theory

7.2 Investigation: Students design and conduct a variety of their own investigations and projects.

Mathematical Understanding

7.6 Arithmetic, Number and Operation Concepts: Students understand arithmetic in computation, and they use, in appropriate situations, mental arithmetic, pencil and paper, calculator, and computer

7.8 Function and Algebra Concepts: Students use function and algebra concepts.

Mathematical Problem Solving and Reasoning

7.10 Applications: Students use concrete, formal, and informal strategies to solve mathematical problems, apply the process of mathematical modeling, and extend and generalize mathematical concepts.

Content Knowledge and Skills

Gross and net pay, income taxes, checking and saving accounts, cash purchases (semester 1)

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Credit purchases, loans, automobile costs, housing costs, insurance and investments (semester 2)

Assessment Criteria

Students will be able to :

complete a mathematical model of a physical phenomena (7.2)

complete a historical study, tracing the development of a mathematical concept (7.2)

Compute gross and net pay

Maintain a checking and savings account

Complete a 1040EZ income tax return

Understand auto and housing loans as well as amortization tables.

Maintain credit card accounts

Understand different types of insurances and purchase insurance based on individual needs

Invest in an appropriate retirement account

Resources

Text: Mathematics with Business Applications (Glencoe, 1998). Scientific calculators and class notebook.