WAMC Lesson Plan

Name(s): Ellen Garr	
Lesson Title: Savings Accounts	
Date: June 25, 2013	
Text: Financial Algebra; Section 3-3 Saving	s Account Lesson Length: 3 Days
Domain: Creating Equations	
Big Idea (Cluster): Understanding how checking accounts work and how to keep an accurate	
record of account activity.	
Common Core State Standards:	
A-SSE Interpret the structure of expressions	
Level 1 – Interpret expressions that represent a quantity in terms of its context	
A-SSE write expressions in equivalent forms to solve problems	
reportion of the quantity represented by the expression	
E-BE Build a function that models a relationship between two quantities	
Level 1 – Write a function that describes a relationship between two quantities	
Sublevel a – Determine an explicit expression, a recursive process, or steps for	
calculation from a context.	
A-CED4 Create equations that describe numbers or relationships	
Level 4 - Rearrange formulas to highli	ght a quantity of interest, using the same
reasoning as in solving equations.	
Mathematical Practice(s):	
1. Makes sense of problems and persevere in solving them	
4. Model with mathematics	
5. Use appropriate tools strategically	
6. Attend to precision	
7. Look for and make use of structure	
Content Objectives:	Language Objectives:
Students will be able to compute simple	
interest using the simple interest formula.	
Vocabulary:	Connections Prior to Learning
• Interest	1. Basic equation solving skills.
Interest rate	2. Basic computation skills
Principal	
Simple interest	
Minimum balance	
Maturity	
Questions to Develop Mathematical	
I NINKING.	All savings accounts and banks are equal.
What is the difference between	• Just put money into savings to make money.
of deposit (CD) accounts?	
How can interest rates be used to	
compare hanks?	
How can the simple interest formula	
be manipulated to find different types	
of information?	and is described and /
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Assessment (Formative and Summative):

• Formative – Time Machine Lab

• Summative – Simple Interest Formula Quiz

Materials:

- Student Worksheets for Million \$ Mission
- Student Worksheets for Manipulating the Simple Interest Formula
- Student Worksheets for Time Machine Lab
- Simple Interest Formula Quiz

Instruction Plan:

Launch:

Now you know how to keep your spending monitored by balancing your checking account. How do you think you can use your money to make money? Listen to suggestions from the class or use questions to stimulate some wild thinking.

To investigate this we are going to try a mathematics fantasy. Introduce the Million \$ Mission by reading the introduction to the class. At the "Break in the Story" pass out the table and have the students begin on the first week as a class. Comment on the amount. Let the students continue to work, stopping after the second and third weeks to evaluate progress. Discuss after complete.

But this was an actual job. Is it likely to find one like this? Let's look at some of the other ways we can make out money work for us. Let's start simple with a simple savings account. Explore: Manipulating the Simple Interest Formula

Introduce the simple interest formula I = prt as "I pretty". On board or overhead, define parts and do an example or two to demonstrate. Then pass out the Simple Interest Formula worksheet and have the students complete. This worksheet reviews equation manipulation and vocabulary. They may work in pairs if they wish. When class is finished, have them share with each other.

Have students go through Example 1, page 132, which reviews the fraction, decimal and percent relationship. Do the Check your Understanding on page 132.

Have students do problems #8, 15 -18

Lab:

Have students do the Getting Rich with Time? Lab. Will need copies of student worksheets but no other set up. The purpose of this lab is show how slow the monetary growth is in a simple interest savings program. It will give them a good comparison to compounding as we move into that section.

When I observe students:

During independent, partner, and group activities I walk around the classroom checking for understanding and on task behavior. Asking for questions and explanations gives me feedback on involvement and interest.

Occasionally stop the class to allow students to share quality questions or discoveries. Summarize: Simple Interest Quiz

Career Application(s):

Simple interest is a good tool to measure the value of other potential investment vehicles. In

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order to compare different options one needs a base line whish each can be compared to.

21st Century Skills and Interdisciplinary Themes: 21st Century Interdisciplinary themes (Check those that apply to the above activity.) **Global Awareness** Financial/Economics Financial/Economic/Business/Entrepreneurial Literacy Civic Literacy Health/Safety Literacy 21st Century Skills (Check those that students will demonstrate in the above activity.) LEARNING AND INNOVATION **INFORMATION, MEDIA &** Productivity and LIFE & CAREER SKILLS Creativity and Innovation **TECHNOLOGY SKILLS** Flexibility and Adaptability Accountability Think Creatively Manage Projects Information Literacy Adapt to Change Work Creatively with Others Access and Evaluate Be Flexible Produce Results Implement Innovations Information Initiative and Self-Direction Leadership and Critical Thinking and Problem Solving Use and manage Information Manage Goals and Time Responsibility Work Independently Be Self-Directed Learners Guide and Lead Reason Effectively Media Literacy Use Systems Thinking Analyze Media Others Make Judgments and Decisions Social and Cross-Cultural Create Media Products Be Responsible Solve Problems Information, Communications and Interact Effectively with to Others Communication and Collaboration Technology (ICT Literacy) Others Apply Technology Effectively Work Effectively in Diverse Communicate Clearly Collaborate with Others Teams

Council

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