WAMC Lab Template

Math Concept(s): Checking Accounts, Reconcile Bank Statements

Source / Text: Financial Algebra Chapter 3-1 to 3-2

Developed by: Thom Duncanson E-Mail: tduncanson@bethelsd.org

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Attach the following documents:

Lab Instructions

Tell your students they're about to do something fun – play a board game.

Many of your students will already be familiar with the game Monopoly. Others may have only a passing knowledge, or may have never heard of the game. Explain to your students that this board game was created in the early 20th century as a simple simulation of the business world. Stress that, like all games, Monopoly is just a model of what happens in the real world. It may not always be true to real life.

Tell your students that they are going to use the official rules of Monopoly – and learn about the real-world economic principles the game represents. Walk your students through the rules of the game, explaining how they relate to real-life. There is one major difference to the way you are playing the game compared to the real rules. We are not going to use the play money, we are only going to use checks!

Rent is what you pay when you live on or use someone else's property. **Income** is a source of cash flow (for this lab we will use the \$200 you get for passing "Go" or the money you collect in rent). **Liabilities** are costs you have to pay – like rent and tax. **Real property** consists of land and buildings on that land. **Wealth** is a measure of your assets minus your liabilities.

Select 4 volunteers to be the 4 major banks for our environment (these need to be well organized students that can multi-task). Using a different color check will differentiate each of these 4 banks. On the attached "Blank Check" worksheet there are four different colored checks, but I would suggest using different color paper and just using the first page of checks.

Divide up the remainder of your class into groups of 4. This group of four will play the monopoly game with each other. Each person in the group must represent a different bank.

Have the students roll the dice to find who goes first, and begin playing. Things that students need to understand.

- 1. There is no free parking pot.
- 2. If a student has to pay money to the bank (luxury tax, property, houses, income tax, etc.) will be paid to Mr. Duncanson.
- 3. If a student receives money from "Chance or Community Chest" they are to take the card directly to their bank and get that into their account. (card then goes back to the proper game board.)
- 4. People will only take their deposits to their own personal bank. Do not take a check to your other players bank. The banks will get the paperwork to the proper bank.

- 5. When the student passes "Go" they need to go up to their bank to deposit the \$200 into their banks records.
- 6. Property purchases can begin immediately.
- 7. Some of their checks may "disappear" (teacher take) count those as Outstanding checks or deposits.

Make sure that you stop the lab with about 10 minutes left in class. This time will allow students to properly put the board games away, and allow the banks to catch up to all the paperwork that rushes in at the end.

Student Handout(s)

Blank Checkbook Register (more then one per student may be needed, depending on how long you run the lab)

Blank Checks

Banking students will need a blank register for each student involved with their bank. (Usually 6 or 7 students per bank).

Rubric and/or Assessment Tool

Excellent 3 pts	Satisfactory 2 pts	Poor 1 pts	Unstatisfactory 0 pts	POINTS (N/A)	
Outstanding Checks & Deposits Students will understand and figure out balance information with the inclusion of outstanding checks and deposits.	Excellent Student displays a strong understand of concepts of bank reconciliation and balanced the bank statement	Satisfactory Student displays an understanding but doesn't have sufficient understanding of concepts to balance bank statement	Poor Students displays an understanding of one concept but doesn't have sufficient understanding to balance bank statement	Unstatisfactory Student does not display any understand of concepts regarding the reconciliation of a bank statement	POINTS
Participation Students will understand the concept of service fees and understand their effect on account balances.	Excellent Tries to keep people working together. Almost always focused on the task and what needs to be done. Is very self-directed.	Does not cause problems in the group. Focuses on the task and what needs to be done most of the time. Can count on this person.	Poor Sometimes not a good team member. Sometimes focuses on the task and what needs to be done. Must be prodded and reminded to keep on task.	Often is not a good team member. Does not focus on the task and what needs to be done. Lets others do the work.	POINTS
Bank Statement Completion Students will review bank statements and complete exercises in the completion of statements.	Excellent Student displays a strong understand of concepts of bank reconciliation and balanced the bank statement	Satisfactory Student displays an understanding but doesn't have sufficient understanding of concepts to balance bank statement	Poor Students displays an understanding of one concept but doesn't have sufficient understanding to balance bank statement	Unstatisfactory Student does not display any understand of concepts regarding the reconciliation of a bank statement	POINTS
TOTAL POINTS EARNED A 8-9 B 6-7 C 4-5 D 203	Excellent	Satisfactory	Poor	Unstatisfactory	POINTS

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Short Descript	ion (Be sure to	include where i	n your instructi	on this lab take	s place):
Lab Plan Lab Title: Monopoly Lab					
Prerequisite skil Completion of C		t (lesson 3-1) an	d Reconcile a Ba	ank Statement (le	esson 3-2)
	ow keeping accu able to write ch		nportant. le a bank statem	ent to at least 90	0%
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State Standards	s addressed (200	08 Washington S	tate Mathematics	s Standards):	
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Reading:					
Writing: • Leadership/21si	t Century Skills:				
21st Century Interdisciplina Global Awareness	ary themes (Check those the	at apply to the above activity.		Civia Literacy	
Health/Safety Literacy			nai Lileracy	☐ Civic Literacy	
21st Century Skills (Check	those that students will dem	nonstrate in the above activit	y.)		
LEARNING AND INNOVA Creativity and Innovation Think Creatively Work Creatively with O Implement Innovations Critical Thinking and Problems Reason Effectively Use Systems Thinking Make Judgments and I Solve Problems Communication and Collatem Communicate Clearly Collaborate with Other	TECH Inform	RMATION, MEDIA & HNOLOGY SKILLS mation Literacy .ccess and Evaluate Information a Literacy .nalyze Media ereate Media Products mation, Communications and nology (ICT Literacy) .pply Technology Effectively	Initiative and Self-I Manage Goals Work Indepen Be Self-Directe Social and Cross-d Interact Effecti	ptability Acc ge Direction Lear s and Time Res dently Othe Cultural	ductivity and ountability Manage Projects Produce Results dership and ponsibility Guide and Lead ers Be Responsible to Others

Teacher Preparation: (What materials and set-up are required for this lab?)

Materials

- Blank registers (attached) 2 for each student to start. 1 for the bank and one for the student themselves. More will be needed depending on how long you run the lab.
- Blank checks (attached) have at least 25 per each student. Students will need to print their names on them in upper left corner and number them all. (checks need to be done in 4 different colors to help the bankers know who the student belongs to.
- 7 complete monopoly boards.

Set-Up Required:

- I recommend going over the rules of the game the day before. Also handing out the paper work (checks and registers) to allow the students the opportunity to get them all labeled ahead of time.
- Have classroom set up so that students can easily sit in groups of 4. Also have the bankers set up in a specific part of the classroom, where all students will use as the central finance area.

Lab Organization Strategies:

Grouping/Leadership/Presentation Opportunities:

- Have 4 of the most organized/strongest mathematic students be the bankers.
- Don't put the most competitive student with the ones that can be intimidated.
- Have each bank use a different color check, allowing the students to know whose bank they belong to.

Cooperative Learning:

Consumer/Family

Expectations:

• Students will write checks and keep accurate records of each purchase, and deposit that they make.

Timeline:

- Minimum of 3 days. One day of instruction, and two days of playing.
- Be sure to close the lab early to allow the materials to be stored correctly and to allow the players to document where their pieces were and which properties each player owned. This also allows the bankers to catch up on all the paperwork that is turned in at the end of the class period.

Post Lab Follow-Up/conclusions:

Discuss real world application of learning from lab

- Banking
- Checking accounts

- Real estate
- Rent

Career Applications

Banking

Optional or Extension Activities

• You can alter the amounts that players pay, by informing the entire class on the 2nd day that all left over properties are 30% off, or all rent is 150% today.

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Check Register

Number or Code	Date	Transaction Description	Payment Amount	Deposit Amount	Balance