

WAMC Lab Template

Math Concept(s): Checking Accounts (2.1)

Source / Text: Financial Algebra Advanced Algebra w/Financial Applications

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Attach the following documents:

- Lab Instructions (See Answer Key)
- Student Handout(s)
- Rubric and/or Assessment Tool

Short Description (Be sure to include where in your instruction this lab takes place):

Lab Plan

Lab Title: Automate Your Check Register

Prerequisite skills: Recording transactions in a paper check register and basic Excel (creating a simple formula and formatting) skills. (YouTube video links are provided as a review.)

Lab objective: Create an Excel spreadsheet with formulas to record transactions and calculate the balance in a checking account.

Standards: (Note SPECIFIC relationship to Science, Technology, and/or Engineering)

Mathematics K–12 Learning Standards:

- A1.1.A Select and justify functions and equations to model and solve problems
- A1.6.B Make valid inferences and draw conclusions based on data

Standards for Mathematical Practice:

- Apply the mathematics they know to solve problems arising in everyday life, society, and the workplace
- Detect possible errors by strategically using estimation and other mathematical knowledge
- Use technological tools to explore and deepen their understanding of concepts
- Notice if calculations are repeated, and look both for general methods and for shortcuts

K-12 Learning Standards-ELA (Reading, Writing, Speaking & Listening):

- Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.

K-12 Science Standards

- NA

Technology

- ISTE 5d Students understand how automation works and use algorithmic thinking to develop a sequence of steps to create and test automated solutions.

Engineering

- NA

Leadership/21st Century Skills:

21st Century Interdisciplinary themes (Check those that apply to the above activity.)

- | | | |
|---|--|---|
| <input type="checkbox"/> Global Awareness | <input checked="" type="checkbox"/> Financial/Economic/Business/Entrepreneurial Literacy | <input type="checkbox"/> Civic Literacy |
| <input type="checkbox"/> Health/Safety Literacy | <input type="checkbox"/> Environmental Literacy | |

21st Century Skills (Check those that students will demonstrate in the above activity.)

LEARNING AND INNOVATION

Creativity and Innovation

- Think Creatively
- Work Creatively with Others
- Implement Innovations

Critical Thinking and Problem Solving

- Reason Effectively
- Use Systems Thinking
- Make Judgments and Decisions
- Solve Problems

Communication and Collaboration

- Communicate Clearly
- Collaborate with Others

INFORMATION, MEDIA & TECHNOLOGY SKILLS

Information Literacy

- Access and Evaluate Information
- Use and manage Information

Media Literacy

- Analyze Media
- Create Media Products

Information, Communications and Technology (ICT Literacy)

- Apply Technology Effectively

LIFE & CAREER SKILLS

Flexibility and Adaptability

- Adapt to Change
- Be Flexible

Initiative and Self-Direction

- Manage Goals and Time
- Work Independently
- Be Self-Directed Learners

Social and Cross-Cultural

- Interact Effectively with Others
- Work Effectively in Diverse Teams

Productivity and Accountability

- Manage Projects
- Produce Results

Leadership and Responsibility

- Guide and Lead Others
- Be Responsible to Others

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

Materials

-

Set-Up Required:

-

Lab Organization Strategies:

Leadership (Connect to 21st Century Skills selected):

-

Cooperative Learning:

-

Expectations:

-

Timeline:

-

Post Lab Follow-Up/Conclusions:

Discuss real world application of learning from lab

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Career Applications

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Optional or Extension Activities

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