

WAMC Lab Template

Math Concept(s): Calculate interest

Source / Text: Financial Algebra

Developed by: Isael Marines E-Mail: Marines.Isael@yakimaschools.org

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Attach the following documents:

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

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

Students will research a college of their choice and learn about the college, cost, admissions, academics, student life, and financial aid . Students will also learn about the community and demographics of the city.

Lab Plan

Lab Title:

Going to College

Prerequisite skills:

Lab objective:

Students will learn about college academics and tuition cost

Students will navigate through a college website to learn about the institution

Student will learn about the different degrees and programs

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

Mathematics K–12 Learning Standards:

Cluster: Create equations that describe numbers or relationships.

- **A.CED.A.1 Create equations and inequalities in one variable and use them to solve problems**

Cluster: Reason quantitatively and use units to solve problems.

- **N.Q.A.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.**
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Standards for Mathematical Practice:

- **Make sense of problems and persevere in solving them.**
- **Model with mathematics**
- **Look for and make use of structure**
- **Look for and express regularity in repeated reasoning.**

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

RST.9-10.7 Translate quantitative or technical information expressed in words in

a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.

K-12 Science Standards

- n/a
Technology

- Internet
Leadership/21st Century Skills:

21st Century Interdisciplinary themes (Check those that apply to the above activity.)			
<input type="checkbox"/> Global Awareness	<input 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	INFORMATION, MEDIA & TECHNOLOGY SKILLS	LIFE & CAREER SKILLS	Productivity and Accountability
<u>Creativity and Innovation</u>	<u>Information Literacy</u>	<u>Flexibility and Adaptability</u>	<input type="checkbox"/> Manage Projects
x Think Creatively	x Access and Evaluate Information	<input type="checkbox"/> Adapt to Change	<input type="checkbox"/> Produce Results
<input type="checkbox"/> Work Creatively with Others	x Use and manage Information	<input type="checkbox"/> Be Flexible	<input type="checkbox"/> Leadership and Responsibility
<input type="checkbox"/> Implement Innovations	<u>Media Literacy</u>	<u>Initiative and Self-Direction</u>	<input type="checkbox"/> Guide and Lead Others
<u>Critical Thinking and Problem Solving</u>	<input type="checkbox"/> Analyze Media	<input type="checkbox"/> Manage Goals and Time	<input type="checkbox"/> Be Responsible to Others
<input type="checkbox"/> Reason Effectively	<input type="checkbox"/> Create Media Products	x Work Independently	
<input type="checkbox"/> Use Systems Thinking	<u>Information, Communications and Technology (ICT Literacy)</u>	x Be Self-Directed Learners	
<input type="checkbox"/> Make Judgments and Decisions	x Apply Technology Effectively	<u>Social and Cross-Cultural</u>	
<input type="checkbox"/> Solve Problems		<input type="checkbox"/> Interact Effectively with Others	
<u>Communication and Collaboration</u>		<input type="checkbox"/> Work Effectively in Diverse Teams	
x Communicate Clearly			
<input type="checkbox"/> Collaborate with Others			

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

Materials

- Computer
- Internet Access
- College/University Worksheet

Set-Up Required:

- Review Chapter 3-3 Student loans
- College Research worksheet

Lab Organization Strategies:

Leadership (Connect to 21st Century Skills selected):

Communicate Clearly

3.A.1 Articulate thoughts and ideas effectively using oral, written and nonverbal communication skills in a variety of forms and contexts

Produce Results

10.B.1.d Participate actively, as well as be reliable and punctual

Manage Projects

10.A.2 Prioritize, plan and manage work to achieve the intended result

Cooperative Learning:

Interact Effectively with Others

9.A.1 Know when it is appropriate to listen and when to speak
9.A.2 Conduct themselves in a respectable, professional manner

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Expectations:

Students will create a PowerPoint presentation on a college/university

Students will create a presentation using MS PowerPoint program

Students will calculate the cost of college tuition for a 4yr institution

Timeline:

- 2 days

Post Lab Follow-Up/Conclusions:

Discuss real world application of learning from lab

- Looking for college
- Calculation cost of loan
- Budgeting

Career Applications

- Consumers
- Counselor
- College recruiters

Optional or Extension Activities

- Invite a financial aid counselor to teach students about:
- College
- Tuition
- Books
- Cost of living
- Programs

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