WAMC Lab Template

Math Concept(s): Measurement and proportions

Source / Text: CORD Unit 3

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Date: Summer Conference 2016

Attach the following documents:

Lab: Add at least four ingredients to a container to make trail mix.

Peanuts, raisins, M&Ms, banana chips, coconut, cashews, chocolate chips, granola Measure each ingredient carefully, using a measuring cup or measuring spoon, and record the ingredients and the measurements. Calculate the proportions for the completed trail mix container. How percent ingredients in trail mix

Student Handout(s) Ingredient and measuring chart (Attached) Labels or printouts

Rubric and/or Assessment Tool Reflection paragraph: (Attached)

Indicate "SPECIFIC" relationship to Science, Technology, or Engineering

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

After the snacks and beverages calorie lesson (sugar and fat boards)

Lab Plan

Lab Title: Trail Mix: How Much of What is in There?

Prerequisite skills: liquid and dry measuring cups, reading and understanding food labels

Lab objective: Student will be able to calculate the proportion of the ingredients are in mixed foods.

Standards:

Mathematics K–12 Learning Standards:

A1.1A, A1.1B, A1.2A, A1.2B

Standards for Mathematical Practice:

- Make sense of problems and persevere in solving them
- Use appropriate tools strategically

CCSS-ELA (Reading, Writing, Speaking & Listening):

Written evaluation of observations

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Leadership/21st Century Skills:

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

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

Materials

- Peanuts, raisins, M&Ms, banana chips, coconut, cashews, chocolate chips, granola
- dry measuring cup and spoon

Set-Up Required:

· Create a bin of supplies for each class

Lab Organization Strategies:

Leadership (Connect to 21st Century Skills selected):

- Students help with set up and clean up. Each student in the group will have a job Cooperative Learning:
 - Work in groups of 3 or 4

Expectations:

Students will be able to explain about the proportion of ingredients Timeline:

55 minutes

Post Lab Follow-Up/conclusions:

Discuss real world application of learning from lab

- Make informed decisions about snack foods
 Career Applications
 - Retail, food service, dietician

Optional or Extension Activities

Create yogurt parfaits



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