

WAMC Lab Template

Math Concept(s): Ratios

Source / Text: CORD Volume 9

Developed by: Terri Phillips E-Mail: phillips.terri@yakimaschools.org

Date: Summer Conference 2016

Attach the following documents:

Lab: Select at 25 post it notes. Choose at least 1 from each color post it pad, pink, green, orange, blue

Student Handout(s) Quilt Color Ratio

Rubric and/or Assessment Tool (Attached)

Indicate “SPECIFIC” relationship to Science, Technology, or Engineering

Technology - Sewing machines will be used in follow up lesson

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

This lesson will follow a lesson on graphing and using rulers

Lab Plan

Lab Title: Quilt Color Ratios

Prerequisite skills: measuring and writing equations

Lab objective: Student will be able to calculate how many calo

Standards:

Mathematics K–12 Learning Standards:

- A-SSE

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

<https://wa-appliedmath.org/>

Leadership/21st Century Skills:

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

- Global Awareness Financial/Economic/Business/Entrepreneurial Literacy Civic Literacy
 Health/Safety Literacy 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

Applied Math Council

<https://wa-appliedmath.org/>

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

Materials

- Post it notes (4 colors)
- Card stock

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

-

Career Applications

-

Optional or Extension Activities

-

<https://wa-appliedmath.org/>