LESSON PLAN (Linda Bolin)

Lesson Title: Proportion and Scale Factor	
Course: Math 7	**Date** February Lesson 2

Utah State Core Content and Process Standards:

2.2b Understand that in a proportional relationship all dimensions change by the same scale factor.

2.2c Create and interpret scale drawings and approximate distance on maps using proportions

Lesson Objective(s): Solve problems using scale factor and proportions

Enduring Understanding (Big Ideas):	**Essential Questions:**
Proportional relationships can help us find missing information and solve problems	• How can a proportion help solve distance problems • How can a scale factor be used in solving problems?
Skill Focus:	**Vocabulary Focus:**
Students will use proportions and scale factors to solve problems.	Ratio, proportion, scale factor

Materials:
• TI-73's
• 1 State map and ruler for each small group
• Overhead transparency map of immediate area or Map Quest or Google map for projector or computer.
• Gummi Bear for each student
• Worksheets: Solving distance problems using proportions, Cookie Conversions, Gummi Bear Basketball
• Journal Page: Defining Scale Factor

Assessment (Traditional/Authentic): Starter questions, Student performance

Ways to Gain/Maintain Attention (Primacy): Writing, measuring on maps, music, sketching

Written Assignment:
• Solving Height Problems Using Proportions
• Solving Distance Problems Using Proportions
• Cookie Conversions
• Journal: Defining Scale Factor and scale drawing
• Gummi Bear Basketball

Post vocabulary on the board

Content Chunks

Starter:

1. Write two more ratios that compare the same way these ratios compare.

3/5, 6/10, 9/15, _____, _____

2. What would the tax be on a $25.00 shirt, if the tax rate was 6.25%