Lab Framework

Text: AMME Unit number and title: Unit 3—Label Explosions

Short Description: To introduce the students on how to read a map with how our highways are numbered.

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Lab Title Map Reading 101

LAB PLAN

TEACHER: Teacher Prep/ Lesson Plan

- Lab Objective To introduce students to how our highways are numbered on a map
- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)

Know the difference between odd and even numbers

• Vocabulary

By pass Through Odd Even

- Materials List
 US Road Map
- State Standards addressed

Math:

A1.2.A Know the relationship between real numbers and the number line, and compare and order real numbers with and without the number line.

A1.6.A Use and evaluate the accuracy of summary statistics to describe and compare data sets.

G.7.B Select and apply strategies to solve problems.

G.7.C Evaluate a solution for reasonableness, verify its accuracy, and interpret the solution in the

context of the original problem.

G.7.E Read and interpret diagrams, graphs, and text containing the symbols, language, and conventions of mathematics.

G.7.G Synthesize information to draw conclusions and evaluate the arguments and conclusions of others.

• Leadership Skills

Being able to work in a small group and present information to a group

- Set-up information
 - Have maps ready to hand out
- Lab organization(-Grouping/leadership opportunities/cooperative learning expectations; -Timeline required)
 - Assign groups Pass out maps
- Teacher Assessment of student learning (scoring guide, rubric) Visual assessment Oral presentations
- Summary of learning (to be finished after student completes lab) -discuss real world application of learning from lab -opportunity for students to share/present learning
- **Optional activities** Plan a trip and calculate miles
- Career Applications Being able to travel across country Plan trips efficiently

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LAB TITLE: <u>Map Reading 101</u> STUDENT INSTRUCTIONS:

- Statement of problem addressed by lab How do you read a map? How are our roads numbered?
 - **Grouping instructions and roles** Work with the person sitting next to you.
- Procedures steps to follow/instructions
 Assign one person to be the recorder, the other person will report results.
 Report back what the group found.
- Outcome instructions List as many things you can about the map
- Assessment instructions (peer-teacher) Your teacher will be watching as your group works for behavior issues and how well you work with each other.

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Lab Data Collection



