**Unit 1: Ratios and Proportional Relationships**

**Key Concept:** Relationships

**Related Concept:** Equivalence, Simplification

**Global Context:** Globalization and Sustainability *(explored through global issues)*

**Common Core:**

6.RP.1

6.RP.2

6.RP.3

6.NS.4

**Statement of Inquiry:**

We use proportional relationships to communicate information.

**Inquiry questions:**

*Factual:* How we set up and solve ratios and proportional relationships?

*Conceptual:* How can we use ratios and proportions to convert between fractions,

decimals, and percents?

*Debatable:* To what extent can we use proportional relationships to understand

critical global issues of concern?

**Main Content:**

* Ratios
* Unit rates
* Proportions
* Converting between fractions, decimals, and percents
* If the world were 100 People

**Resources:**

Glencoe Math: Built to the Common Core, Math Antics, ALEKS, 100 People: A World Portrait, TED talks

**Summative Assessment:**

**Criteria A** (knowing and understanding)

i. Select appropriate mathematics when solving problems in both familiar and unfamiliar situations.

ii. Apply the selected mathematics successfully when solving problems

iii. Solve problems correctly in a variety of contexts.

**Criteria C** (Communicating)

i. Use appropriate mathematical language in both oral and written explanations

ii. Use appropriate forms of mathematical representation to present information

iii. Move between different forms of mathematical representation

iv. communicate complete, coherent, and concise mathematical lines of

reasoning

v. organize information using a logical structure

**ATLs** *(goal is how to be a successful student in math class, and explain reasoning for answers)*

**Category:** Communication **Cluster:** Communication **Skill Indicator:** Reading, writing, and using language to gather and communicate information

**Category:** Self-management  **Cluster:**  Organization **Skill Indicator:** managing time and tasks effectively

**Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Analyzing and evaluating issues and ideas