MATHEMATICS STANDARD:

Communication

"All students will understand, form and convey clear and appropriate representations of mathematical ideas, concepts, information, data, and relationships."

Rationale:

When students see that one representation can describe several situations, they begin to understand the power of mathematics; when they realize that some ways of representing a problem are more helpful than others, they begin to understand the flexibility and usefulness of mathematics. Mathematical terms and notations enable students to represent and communicate these ideas.

Key Elements: All students will:

- Decode and understand mathematical symbols and expressions.
- Reflect upon and clarify their thinking about mathematical ideas and relationships.
- Express and represent mathematical ideas using oral and written presentations, physical materials, pictures, graphs, charts, and algebraic expressions.
- Formulate definitions and express generalizations developed through investigations to develop common understanding of mathematical ideas.
- * Generate questions, and make conjectures and convincing arguments.
- Clarify mathematical ideas through dialogue with peers.

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