



Building Math for Common Core State Standards: Amazon Mission

Museum of Sci, Wong & Brizuela

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This simulation is uniquely appropriate for STEM (science, technology, engineering, and mathematics) initiatives. And it s great fun!

Students will use algebraic thinking, data analysis and the engineering design process to solve problems in real-world settings.

In Amazon Mission, students help a native village surmount malaria, and confront the environmental hazards of gold-mining.

Students will conduct mathematics investigations including

- calculating and interpreting the slope of a line
- graphing a compound inequality
- producing and analyzing a line graph that relates two variables
- distinguishing between independent and dependent variables
- drawing a three-dimensional object and its net
- finding the surface area of a three-dimensional object
- writing a compound inequality statement
- identifying and extending exponential patterns
- calculating compound probabilities

Science investigations include:

- conducting two controlled experiments
- collecting experimental data in a table
- graphing simulation data and describing trends
- using a computer model

Building Math was developed through a partnership with the Boston Museum of Science and Tufts University, and successfully piloted in Boston-area schools.

Each book includes a poster illustrating the engineering design process and a DVD with classroom implementation samples.

Addresses Common Core State standards and ITEA standards for technological literacy

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