

## **NH Curriculum Framework for Mathematics**

### **Number and Operations**

**M:N&O:1** – Demonstrates understanding of rational numbers.

Related PLT Secondary Module Activities

*Focus on Forests:*

- 4: Who Owns America's Forests?

**M:N&O:2** – Demonstrates understanding of the relative magnitude of numbers.

Related PLT Secondary Module Activities

*Focus on Risk:*

- 5: Communicating Risk

**M:N&O:3** – Demonstrates understanding of mathematical operations.

Related PLT Secondary Module Activities

- *None*

**M:N&O:4** – Accurately solves problems.

Related PLT Secondary Module Activities

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream
- 3: Recycling and Economics

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk
- 7: Decision Making: Ecological Risk, Wildfires, and Natural Hazards

**M:N&O:5** – Demonstrates understanding of monetary value.

Related PLT Secondary Module Activities

- *None*

**M:N&O:6** – Uses a variety of mental computation strategies to solve problems and determine the reasonableness of answers.

Related PLT Secondary Module Activities

- *None*

**M:N&O:7** – Makes estimates.

Related PLT Secondary Module Activities

*Focus on Forests:*

- 4: Who Owns America's Forests?

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream

*Forests of the World:*

- 8: Making Consumer Choices

**M:N&O:8** – Applies properties of numbers and field properties to solve problems and simplify computations.

Related PLT Secondary Module Activities

- *None*

## **Geometry and Measurement**

**M:G&M:1** – Uses properties or attributes to identify, describe, classify, or distinguish among polygons and circles.

Related PLT Secondary Module Activities

- *None*

**M:G&M:2** – Applies theorems or relationships to solve problems.

Related PLT Secondary Module Activities

- *None*

**M:G&M:3** – Uses properties or attributes to identify, compare, or describe three-dimensional shapes.

Related PLT Secondary Module Activities

- *None*

**M:G&M:4** – Demonstrates understanding and applies concepts of congruency.

Related PLT Secondary Module Activities

- *None*

**M:G&M:5** – Demonstrates understanding and applies concepts of similarity.

Related PLT Secondary Module Activities

- *None*

**M:G&M:6** – Demonstrates understanding of one, two, and three-dimensional measurements, including length/height, radius, diameter, circumference, perimeter, area, surface area, volume, and the use of trigonometric formulas to find these measures.

Related PLT Secondary Module Activities

*Forest Ecology:*

- 2: Cast of Thousands
- 6: Story of Succession

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream

**M:G&M:7** – Demonstrates understanding of measurable attributes, measures and uses units of measure appropriately and consistently, and makes accurate conversions when solving problems.

Related PLT Secondary Module Activities

*Focus on Forests:*

- 4: Who Owns America's Forests?

*Forest Ecology:*

- 2: Cast of Thousands
- 6: Story of Succession

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream
- 4: Composting

**M:G&M:8** – Determines elapsed and accrued time.

Related PLT Secondary Module Activities

- *None*

**M:G&M:9** – Demonstrates understanding of spatial relationships and solves problems using location and position.

Related PLT Secondary Module Activities

- *None*

**M:G&M:10** – Demonstrates conceptual understanding of spatial reasoning and visualization.

Related PLT Secondary Module Activities

*Forest Ecology:*

- 7: Understanding Fire

*Focus on Risk:*

- 7: Decision Making: Ecological Risk, Wildfires, and Natural Hazards

## **Functions and Algebra**

**M:F&A:1** – Identifies, generalizes, and extends to specific cases a variety of patterns and/or sequences.

Related PLT Secondary Module Activities

- *None*

**M:F&A:2** – Demonstrates understanding of linear and nonlinear relationships and functions.

Related PLT Secondary Module Activities

*Municipal Solid Waste:*

- 3: Recycling and Economics

**M:F&A:3** – Demonstrates understanding of algebraic expressions.

Related PLT Secondary Module Activities

- *None*

**M:F&A:4** – Demonstrates conceptual understanding of equality.

Related PLT Secondary Module Activities

- *None*

## **Data, Statistics, and Probability**

**M:DSP:1** – Interprets a given representation to answer questions related to the data, or to analyze the data to formulate conclusions, make predictions, and/or solve problems.

Related PLT Secondary Module Activities

*Focus on Forests:*

- 4: Who Owns America's Forests?

*Municipal Solid Waste:*

- 3: Recycling and Economics
- 4: Composting
- 7: Where Does Your Garbage Go?

*Focus on Risk:*

- 5: Communicating Risk

**M:DSP:2** – Analyzes patterns, trends, or distributions in data in a variety of contexts.

Related PLT Secondary Module Activities

*Focus on Forests:*

- 4: Who Owns America's Forests?

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream
- 3: Recycling and Economics
- 7: Where Does Your Garbage Go?

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk

**M:DSP:3** – Organizes and displays data; identifies or describes elements of representations that best display a given set of data or situation.

Related PLT Secondary Module Activities

*Focus on Forests:*

- 4: Who Owns America's Forests?

*Forest Ecology:*

- 2: Cast of Thousands
- 6: Story of Succession

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream
- 3: Recycling and Economics
- 4: Composting
- 7: Where Does Your Garbage Go?

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk
- 5: Communicating Risk

**M:DSP:4** – Uses counting techniques to solve problems.

Related PLT Secondary Module Activities

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk

**M:DSP:5** – Solves problems to determine the experimental or theoretical probability of an event.

Related PLT Secondary Module Activities

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk
- 7: Decision Making: Ecological Risk, Wildfires, and Natural Hazards

**M:DSP:6** – Decides the most effective method to collect the data necessary to answer a question or hypothesis; collects, organizes and appropriately displays the data; analyzes the data to draw conclusions, and when appropriate makes predictions, asks new questions, and makes connections to real-world situations.

Related PLT Secondary Module Activities

*Forest Ecology:*

- 1: Adopt-A-Forest

*Municipal Solid Waste:*

- 8: Take Action: Success Stories and Personal Choices

## **Problem Solving, Reasoning, and Proof**

**M:PRP:1** – Students will use problem-solving strategies to investigate and understand increasingly complex mathematical content. (*See Appendix for grade-level specifics.*)

Related PLT Secondary Module Activities

*Municipal Solid Waste:*

- 3: Recycling and Economics

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk

**M:PRP:2** – Students will use mathematical reasoning and proof. (*See Appendix for grade-level specifics.*)

Related PLT Secondary Module Activities

*Forest Ecology:*

- 7: Understanding Fire

*Focus on Risk:*

- 5: Communicating Risk
- 6: Weighing the Options: A Look at Tradeoffs
- 7: Decision Making: Ecological Risk, Wildfires, and Natural Hazards

## **Communication, Connections, and Representations**

**M:CCR:1** – Students will communicate their understanding of mathematics. (*See Appendix for grade-level specifics.*)

Related PLT Secondary Module Activities

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk

**M:CCR:2** – Students will create and use representations to communicate mathematical ideas and to solve problems. (*See Appendix for grade-level specifics.*)

Related PLT Secondary Module Activities

*Forest Ecology:*

- 1: Adopt-A-Forest
- 2: Cast of Thousands
- 6: Story of Succession

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream
- 7: Where Does Your Garbage Go?
- 8: Take Action: Success Stories and Personal Choices

*Focus on Risk:*

- 5: Communicating Risk

*Forests of the World:*

- 8: Making Consumer Choices

**M:CCR:3** – Students will recognize, explore, and develop mathematical connections. (*See Appendix for grade-level specifics.*)

Related PLT Secondary Module Activities

*Municipal Solid Waste:*

- 1: Introduction to MSW: The Waste Stream
- 3: Recycling and Economics
- 4: Composting
- 7: Where Does Your Garbage Go?
- 8: Take Action: Success Stories and Personal Choices

*Focus on Risk:*

- 3: Chances Are...Understanding Probability and Risk
- 5: Communicating Risk
- 6: Weighing the Options: A Look at Tradeoffs
- 7: Decision Making: Ecological Risk, Wildfires, and Natural Hazards

*Forests of the World:*

- 8: Making Consumer Choices