Mathematics

GEOMETRY

CCG: Analyze characteristics and properties of two and three dimensional geometric shapes and develop mathematical arguments about geometric relationships.

Foundation: Properties and Relationships

HOMES & HABITATS	(K—1st)
MA.01.GM.01	Identify, describe, and classify triangles, rectangles, squares, circles, and ovals.
MA.01.GM.02	Recognize and identify attributes of two-dimensional geometric shapes in the environment.

WHAT'S A FOREST	(grades 1st—2nd)
MA.01.GM.01	Identify, describe, and classify triangles, rectangles, squares, circles, and ovals.
MA.01.GM.02	Recognize and identify attributes of two-dimensional geometric shapes in the environment.

CCG: Specify locations describe spatial relationships using coordinate geometry and other representational systems.

Foundation: Coordinate Geometry

HOMES & HABITATS	(K—1st)
MA.01.GM.05	Arrange and describe objects in space by relative position and direction.

WHAT'S A FOREST	(grades 1st—2nd)
MA.01.GM.05	Arrange and describe objects in space by relative position and direction.

STATISTICS & PROBABILITY~~

CCG: Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

HOMES & HABITATS	(K—1st)
MA.01.SP.02	Pose questions and gather data about themselves and their surroundings.
MA.01.SP. 03	Sort and classify objects according to their attributes and organize data about the objects into categories.
MA.01.SP.04	Represent data using concrete objects and pictographs.

WHAT'S A FOREST	**(grades 1st—2nd)**
MA.01.SP.02	Pose questions and gather data about themselves and their surroundings.
MA.01.SP. 03	Sort and classify objects according to their attributes and organize data about the objects into categories.
MA.01.SP.04	Represent data using concrete objects and pictographs.
STATISTICS AND PROBABILITY	
CCG: Formulate questions that can be addressed with date and collect, organize, and display relevant data to answer them.	
Foundation: Collect and Display Data	
FOOD CHAIN FUN	**(grades 3rd—4th)**
MA.03.SP.02	Ask and answer simple questions that can be answered by collecting, organizing, and displaying data.
MA.03.SP.03	Sort and classify objects according to their attributes and organize data about the objects into categories.
MA.03.SP.04	Represent data using concrete objects and pictographs.
PAST & PRESENT	**(grades 3rd—4th)**
MA.03.SP.02	Ask and answer simple questions that can be answered by collecting, organizing, and displaying data.
MA.03.SP.04	Represent data using concrete objects and pictographs.
MATHEMATICAL PROBLEM SOLVING	
CCG: Apply and adapt a variety of appropriate strategies to solve problems.	
Foundation: Processes and Strategies	
FOOD CHAIN FUN	**(grades 3rd—4th)**
MA.03.PS.02	Choose strategies that can work and then carry out the strategies chosen.
PAST & PRESENT	**(grades 3rd—4th)**
MA.03.PS.02	Choose strategies that can work and then carry out the strategies chosen.
CCG: Communicate mathematical thinking coherently and clearly: use the language of mathematics to express mathematical ideas precisely.	

Foundation: Communication	
FOOD CHAIN FUN	**(grades 3rd—4th)**
MA.03.PS.04	Use pictures, symbols, and/or vocabulary to convey the path to the identified solution.
PAST & PRESENT	**(grades 3rd—4th)**
MA.03.PS.02	Choose strategies that can work and then carry out the strategies chosen.
STATISTICS AND PROBABILITY	
CCG: Develop and evaluate inferences and predictions that are based on data.	
Foundation: Data Analysis and Predictions	
FOOD CHAIN FUN	**(grades 3rd—4th)**
MA.04.SP.06	Predict the degree of likelihood of a single event occurring using words such as certain, impossible, most often, least often, likely and unlikely.
PAST & PRESENT	**(grades 3rd—4th)**
MA.04.SP.06	Predict the degree of likelihood of a single event occurring using words such as certain, impossible, most often, least often, likely and unlikely.
STATISTICS AND PROBABILITY	
CCG: Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.	
Foundation: Collect and Display Data	
FRESHWATER & FORESTS	**(grades 5th—6th)**
MA.05.SP.03	Design investigations to address a question and recognize how data collection methods affect the nature of a set of data.
MA.05.SP.04	Understand basic concepts of sampling (eg., larger samples yield better results, the need for representative samples).
MATHEMATICAL PROBLEM SOLVING	
CCG: Monitor and reflect on the process of mathematical problem solving.	
Foundation: Verification	

FRESHWATER & FORESTS	**(grades 5th—6th)**
MA.05.PS.03	Produce identifiable evidence of a second look at the concepts/strategies/calculations to defend a solution.
CCG: Communicate mathematical thinking coherently and clearly; use the language of mathematics to express mathematical ideas precisely.	
Foundation: Communication	
FRESHWATER & FORESTS	**(grades 5th—6th)**
MA.05.PS.04	Use pictures, symbols, and/or vocabulary to convey the path to the identified solution.
CCG: Accurately solve problems that arise in mathematics and other contexts.	
Foundation: Communication	
MA.05.PS.05	Accurately solve problems using mathematics.
MATHEMATICAL PROBLEM SOLVING	
CCG: Accurately solve problems that arise in mathematics and other contexts.	
Foundation: Accuracy	
MA.06.PS.05	Accurately solve problems using mathematics.
STATISTICS AND PROBABILITY	
CCG: Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.	
Foundation: Collect and Display Data	
EVER-CHANGING ECOSYSTEMS	**(grades 7th—8th)**
MA.07.SP.06	Formulate questions and design experiments or surveys to collect relevant data.
CCG: Develop and evaluate inferences and predictions that are based on data.	
Foundation: Data Analysis and Predictions	
MA.07.SP.14	Use observations about differences between two or more samples to make conjectures about the populations from which the samples were taken.