

Timelines for Math Out of the Box Modules

Fourth Grade

Following are timelines for each fourth grade module. The curriculum is deigned so that the order of the modules can be changed to correlate with local curriculum and pacing guides. However, the concepts within a module should be taught sequentially. Lessons averaging 1½ hours each do not have to be finished in one day or at one sitting. Lessons can be separated between the phases of the learning cycle.

Engage—10 to 15 minutes

Investigate—30 to 45 minutes

Reflect—15 minutes

Apply—15 minutes

Many activities in the Apply phase can be completed at centers throughout the school day. An alternative plan is to schedule an Apply day after each subconcept using the activities to remediate skills and to challenge students.

Developing Number Concepts: Stories and Statements, Module A

Lessons 1 to 7	Subconcept: Fact families can be analyzed for patterns using a variety of representations.	7 to 9 days
Lessons 8 to 12	Subconcept: The base-10 number system and its place-value structure can be analyzed for patterns using a variety of representations.	5 to 10 days
Lessons 13 to 18	Subconcept: Meaning for addition and subtraction can be developed by constructing a variety of models and strategies.	6 to 12 days
Lessons 19 to 30	Subconcept: Meaning for multiplication and division can be developed by constructing a variety of models and strategies.	12 to 19 days
Total		30 to 50 days

Developing Number Concepts: Stories and Statements, Module B

Lessons 1 to 3	Subconcept: Meaning for fractional relationships can be developed by constructing a variety of models.	4 to 5 days
Lessons 4 to 9	Subconcept: Meaning for decimals can be developed by constructing a variety of models.	7 to 10 days
Lessons 10 to 12	Subconcept: Meaning for addition and subtraction of decimals can be developed by constructing a variety of models.	3 to 5 days
Lessons 13 to 15	Subconcept: Attributes of money can be analyzed, described, and modeled.	4 to 5 days
Lessons 16 to 18	Subconcept: Attributes of negative numbers can be analyzed, described, and modeled	4 to 5 days
Lessons 19 to 21	Subconcept: Basic concepts of probability can be applied to everyday experiences.	4 to 5 days
Lessons 22 to 24	Subconcept: Situations that occur in everyday life can be modeled mathematically.	4 to 5 days
Total		30 to 40 days

Developing Algebraic Thinking: Signs and Symbols

Algebra		
Lessons 1 to 3	Subconcept: Number sequences can be described, analyzed, and extended.	3 to 4 days
Lessons 4 to 6	Subconcept: Growing patterns can be described, analyzed, and extended.	3 to 5 days
Lessons 7 to 10	Subconcept: Relationships can be analyzed to determine rules.	4 to 6 days
Data Analysis		
Lessons 11 to 13	Subconcept: Categorical data can be analyzed and described.	3 to 4 days
Lessons 14 to 16	Subconcept: Numerical data can be analyzed and described.	3 to 5 days
Lessons 17 to 20	Subconcept: A story can be told about the data.	4 to 6 days
Total		20 to 30 days

Developing Geometric Logic: Corners and Containers

Lessons 1 to 4	Subconcept: Three-dimensional shapes can be analyzed and described.	4 to 6 days
Lessons 5 to 9	Subconcept: Attributes of polygons can be identified and described.	5 to 7 days
Lessons 10 to 12	Subconcept: Conjectures about geometric properties can be made and tested.	3 to 5 days
Lessons 13 to 16	Subconcept: Movements of shapes can be analyzed and described.	4 to 6 days
Lessons 17 to 20	Subconcept: Conclusions can be drawn about the position and location of shapes.	4 to 6 days
Total		20 to 30 days

Developing Measurement Benchmarks: Inside and Outside

Lessons 1 to 6	Subconcept: Attributes of length can be analyzed and described.	6 to 9 days
Lessons 7 to 10	Subconcept: Attributes of area and volume can be analyzed and described.	4 to 6 days
Lessons 11 to 14	Subconcept: Attributes of time and temperature can be analyzed and described.	4 to 6 days
Lessons 15 to 20	Subconcept: Attributes of capacity and weight can be analyzed and described.	6 to 9 days
Total		20 to 30 days