

Timelines for Math Out of the Box Modules

Third Grade

Following are timelines for each third grade module. The curriculum is designed 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: Ordering and Arranging, Module A

Lessons 1 to 8	Subconcept: Fact families can be analyzed for patterns using a variety of representations.	8 to 10 days
Lessons 9 to 15	Subconcept: The base-10 number system and its place-value structure can be analyzed for patterns using a variety of representations.	7 to 10 days
Lessons 16 to 25	Subconcept: Meaning for addition and subtraction can be developed by constructing a variety of models and strategies.	10 to 16 days
Lessons 26 to 30	Subconcept: Meaning for multiplication and division can be developed by constructing a variety of models and strategies.	5 to 9 days
Total		30 to 45 days

Developing Number Concepts: Ordering and Arranging, Module B

Lessons 1 to 4	Subconcept: Meaning for fractional relationships can be developed by constructing a variety of models.	7 to 10 days
Lessons 5 to 7	Subconcept: Meaning for decimals can be developed by constructing a variety of models	5 to 7 days
Lessons 8 to 12	Subconcept: Attributes of money can be analyzed, described, and modeled.	7 to 11 days
Lessons 13 to 17	Subconcept: Basic concepts of probability can be applied to everyday experiences.	7 to 11 days
Lessons 18 to 20	Subconcept: Situations that occur in everyday life can be modeled mathematically.	4 to 6 days
Total		30 to 45 days

Developing Algebraic Thinking: Plotting and Growing

Algebra		
Lessons 3 to 5	Sub-concept: Repeating patterns can be described, analyzed, and extended.	3 to 5 days
Lessons 6 to 8	Sub-concept: Growing patterns can be described, analyzed, and extended.	3 to 5 days
Lessons 9 to 12	Sub-concept: Relationships can be analyzed to determine rules.	3 to 5 days
Data Analysis		
Lessons 1 to 2	Sub-concept: A fair test is needed for data collection. *Note: Bulbs need to be planted before the remainder of the data analysis lessons.	2 to 3 days
Lessons 13 to 14	Sub-concept: Data sets can be analyzed based on how they are centered.	2 to 3 days
Lessons 15 to 17	Sub-concept: Data can be analyzed and described.	4 to 5 days
Lessons 18 to 20	Sub-concept: A story can be told about the data.	3 to 4 days
Total		20 to 30 days

Developing Geometric Logic: Shapes and Paths

Lessons 1 to 4	Subconcept: Three-dimensional shapes can be analyzed and described.	4 to 6 days
Lessons 5 to 7	Subconcept: Attributes of polygons can be identified and described.	3 to 5 days
Lessons 8 to 11	Subconcept: Conjectures about geometric properties can be made and tested.	4 to 6 days
Lessons 12 to 15	Subconcept: Movements of shapes can be analyzed and described.	4 to 6 days
Lessons 16 to 20	Subconcept: Conclusions can be drawn about the position and location of shapes.	5 to 7 days
Total		20 to 30 days

Developing Measurement Benchmarks: Scales and Balances

Lessons 1 to 6	Subconcept: Attributes of length can be analyzed and described.	6 to 9 days
Lessons 7 to 11	Subconcept: Attributes of area and volume can be analyzed and described.	6 to 9 days
Lessons 12 to 15	Subconcept: Attributes of time and temperature can be analyzed and described.	4 to 6 days
Lessons 16 to 20	Subconcept: Attributes of capacity and weight can be analyzed and described.	4 to 6 days
Total		20 to 30 days

