

Timelines for Math Out of the Box Modules

First Grade

Following are timelines for each first 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: Families and Facts, Module A

Lessons 1 to 4	Subconcept: Number quantities to twenty can be analyzed using a variety of representations.	6 to 10 days
Lessons 5 to 12	Subconcept: Addition facts can be analyzed for patterns using a variety of representations.	10 to 13 days
Lessons 13 to 17	Subconcept: Subtraction facts can be analyzed for patterns using a variety of representations.	7 to 11 days
Lessons 18 to 22	Subconcept: Number quantities to one hundred can be analyzed using a variety of representations.	7 to 11 days
Total		30 to 45 days

Developing Number Concepts: Families and Facts, Module B

Lessons 1 to 3	Subconcept: Estimation strategies can be used to analyze sets.	4 to 7 days
Lessons 4 to 7	Subconcept: The base-10 number system and its place-value structure can be analyzed for patterns using a variety of representations.	6 to 10 days
Lessons 8 to 14	Subconcept: Meaning for addition and subtraction can be developed by constructing a variety of models and strategies.	11 to 15 days
Lessons 15 to 20	Subconcept: Basic concepts of probability can be applied to everyday experiences.	9 to 13 days
Total		25 to 45 days

Developing Algebraic Thinking: Together and Apart

Algebra		
Lessons 1 to 3	Subconcept: Patterns can be described.	3 to 5 days
Lessons 4 to 6	Subconcept: Repeating patterns can be analyzed and extended.	3 to 5 days
Lessons 7 to 10	Subconcept: Number patterns can be analyzed and extended.	4 to 5 days
Data Analysis		
Lessons 11 to 13	Subconcept: Collections can be sorted according to a rule.	3 to 5 days
Lessons 14 to 16	Subconcept: Counts can be made of data that has been gathered.	3 to 5 days
Lessons 17 to 20	Subconcept: Data can be displayed and analyzed.	4 to 5 days
Total		20 to 30 days

Developing Geometric Logic: Symmetry and Shapes

Lessons 1 to 6	Subconcept: Three-dimensional shapes can be analyzed and described.	6 to 8 days
Lessons 7 to 12	Subconcept: Two dimensional shapes can be analyzed and described.	6 to 8 days
Lessons 13 to 16	Subconcept: Geometry can be related to other areas of mathematics.	4 to 7 days
Lessons 17 to 20	Subconcept: Conclusions can be drawn about the position and location of shapes.	4 to 7 days
Total		20 to 30 days

Developing Measurement Benchmarks: Up and Down

Lessons 1 to 8	Subconcept: Attributes of length can be analyzed and described.	8 to 11 days
Lessons 9 to 12	Subconcept: Attributes of money can be analyzed and described.	4 to 6 days
Lessons 13 to 17	Subconcept: Attributes of time and temperature can be analyzed and described.	5 to 8 days
Lessons 18 to 20	Subconcept: Attributes of capacity and weight can be analyzed and described.	3 to 5 days
Total		20 to 30 days