

SPRING GROVE AREA SCHOOL DISTRICT

PLANNED COURSE OVERVIEW



Course Title: Mathematics Length of Course: 30 Cycles

Grade Level(s): 1 Periods Per Cycle: 6

Units of Credit: N/A Length of Period: 60 Minutes

Classification: Required Total Instructional Time: 180 Hours

Course Description

This course is designed to present developmentally appropriate basic number facts and computation skills. It covers a variety of fundamental mathematical skills that include: Numbers and Operations, Algebraic Concepts, Geometry, Measurement, Data and Probability.

Instructional Strategies, Learning Practices, Activities, and Experiences

Anchor Charts

Anticipatory Sets

Assessments (Chapter, Unit, Teacher-Created)

Bell Ringers

Graphic Organizers

Guided Practice

Higher-Level Questioning

Homework

Fracher Demonstrations

Fracher Observations

CalculatorsInteraction SequenceTeacher ObservationsClass DiscussionsJournalsTechnology IntegrationClosureManipulativesInternet Resources

Critical Thinking Posted Objectives Vocabulary (Cards, Strategies, and Lists)

Fact Fluency Practice Exercises Wait Time

Flexible Groups Wait Time Extended

Assessments

Assessments (Chapter, Unit, Teacher-Created) Higher-Level Questioning Projects

Closure CASE Assessments Teacher Observations

Fact Fluency Presentations

Materials/Resources

Anchor Charts Internet Resources Trade Books, Picture Books, Big Books

Calculators Manipulatives Math in Practice

Graphic Organizers Journals Vocabulary (Cards, Strategies, and Lists)

Houghton Mifflin 2007 Resource Books

Adopted: 1/27/88

Revised: 9/3/91; 9/16/98; 9/17/03; 8/17/09; 5/20/13; 5/20/2019



The Standards of Mathematical Practices				
Make sense of problems and persevere in solving them. Construct viable arguments and critique the reasoning of others. Use appropriate tools strategically. Look for and make use of structure.		Reason abstractly and quantitatively. Model with mathematics. Attend to precision. Look for and express regularity in repeated reasoning.		
CONTENT/KEY CONCEPTS		OBJECTIVES/STANDARDS		
 2.1 Numbers and Operations in Base 10 Count to 120, starting at any number, and read and write numerals 	2.1.1.B.1 - Extend the counting	sequence to read and write numerals to represent objects within 120.		
 Understand the meaning of tens and ones in a two-digit number Decompose two-digit numbers 	2.1.1.B.2 - Use place value cond	cepts to represent amount of tens and ones and to compare two-digit numbers.		
 Compare two-digit numbers using symbols Mentally find ten more or ten less than a two-digit number Use place value models, drawings, or strategies to add a two-digit number and a multiple of 10, and to subtract a multiple of 10 from a multiple of 10 	2.1.1.B.3 - Use place value cond	cepts and properties of operations to add and subtract within 100.		
Solve word problems using these skills	Habits of Mind of a Production Reasoning and Explain Modeling and Using To Seeing Structure and G	ing ols		

Unit 2: Operations and Algebraic Thinking			
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS		
2.2 Operations and Algebraic Thinking Explore strategies for addition and subtraction within 20	2.2.1.A.1 - Represent and solve problems involving addition and subtraction within 20.2.2.1.A.2 - Understand and apply properties of operations and the relationship between addition and subtraction.		
Gain fluency with addition and subtraction facts within 20			
 Use place value models, drawings, or strategies to add a two-digit number and a one-digit number 	CC.2.1.2.B.3 - Use pace value understanding and properties of operations to add and subtract within 1,000. CC.2.2.2.A.1 - Represent and solve problems involving addition and subtraction within 100.		
Solve word problems using addition and subtraction strategies	Habits of Mind of a Production Mathematical Thinker: Reasoning and Explaining Modeling and Using Tools Seeing Structure and Generalizing		

Unit 3: Geometry		
CONTENT/KEY CONCEPTS	Objectives/Standards	
Recognize the defining attributes of flat and solid shapes Describe and draw shapes based on their attributes	 2.3.1.A.1 - Compose and distinguish between two- and three-dimensional shapes based on their attributes. 2.3.1.A.2 - Use the understanding of fractions to partition shapes into halves and fourths. 	
Compose and decompose shapes		
Partition shapes in halves and fourths in different ways		
Describe a whole by talking about its parts using words like halves, fourths and quarters		
Understand that when decomposing a whole into equal parts, the parts get smaller		
Understand that fractions can show parts of a set		
Solve word problems using the above skills	Habits of Mind of a Production Mathematical Thinker: Reasoning and Explaining Modeling and Using Tools Seeing Structure and Generalizing	

Unit 4: Measurement and Data			
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS		
	B: Optional Enrichment - Explorations with coins at the first grade level provide a foundation for those problem solving experiences in second grade. 2.4.1.A.2 - Tell and write time to the nearest half hour using both analog and digital clocks. 2.4.1.A.1 - Order lengths and measure them both indirectly and by repeating length units. 2.4.1.A.4 - Represent and interpret data using tables/charts.		
Measure objects using inches and centimeters with a ruler Organize and represent up to three estagaries.			
Organize and represent up to three categories of data			

PLANNED COURSE: Mathematics

LEVEL: Grade 1

Unit 4: Measurement and Data - continued			
CONTENT/KEY CONCEPTS	Objectives/Standards		
2.4 Measurement and Data Describe and interpret data; Answer questions about data	2.4.1.A.4 - Represent and interpret data using tables/charts.		
Solve word problems involving the above skills	Habits of Mind of a Production Mathematical Thinker: Reasoning and Explaining Modeling and Using Tools Seeing Structure and Generalizing		