TOWNSHIP OF UNION PUBLIC SCHOOLS



Grade 1 - Mathematics

Adopted Month Day, Year

Mission Statement

contribute as responsible and productive citizens of our global community. students' intellectual curiosity, skills and knowledge, our students can achieve academically and socially, and every student is challenged, inspired, empowered, and respected as diverse learners. Through cultivation of integrity, strong family, and community partnerships. We promote a supportive learning environment where The mission of the Township of Union Public Schools is to build on the foundations of honesty, excellence,

Philosophy Statement

and community. students in general, providing therein for individual differences. The school operates as a partner with the home through its educational practices. It is the belief of the Board of Education that a primary function of the Township of Union Public School System is to formulate a learning climate conducive to the needs of all The Township of Union Public School District, as a societal agency, reflects democratic ideals and concepts

Unit 1 - Module A

Unit Title: Mathematics – Strategies for Addition and Subtraction – Unit 1 – Module A

Grade level: Grade 1

Timeframe: Marking Period 1

Rationale

Grade 1 - Strategies for Addition and Subtraction - Unit 1

understanding as they learn that a ten is a bundle of ten ones and can be used to compose numbers 11 through 19. counting to 120, reading and writing numbers through 50 and representing objects with a written number. Learners build place value The primary focus of Unit 1 is addition and subtraction. Building upon the counting sequence mastered in Kindergarten, learners begin

for addition and subtraction and use equations with an unknown in any position. understanding to determine if addition and subtraction equations are true or false. Learners solve word problems using various strategies An important conceptual understanding for their future work in mathematics is the meaning of the equal sign. Learners use this

two-dimensional shapes. learners move beyond describing objects in the environment using two-dimensional shapes to composing new shapes from composite Introducing composite two-dimensional shapes is essential for expanding geometric skills and concepts from kindergarten. Grade 1

Note: Double asterisks (**) indicate that the example(s) included within the New Jersey Student Learning Standard may be especially informative when considering the Student Learning Objective.

Essential Questions

Standards

Standards (Taught and Assessed):

- 1.NBT.A.1 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.
- 1.NBT.B.2 Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special
- a. 10 can be thought of as a bundle of ten ones called a "ten."
- b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones
- 1.OA.A.1 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, number to represent the problem. taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown
- 1.OA.C.5 Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).
- **1.OA.B.3** Apply properties of operations as strategies to add and subtract. 3 Examples: If 8 + 3 = 11 is known, then 3 + 8 = 11 is also known (Commutative property of addition.) To add 2+6+4, the second two numbers can be added to make a ten, so 2+6+4=2+10=12.
- 1.OA.D.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? 6 = 6, 7 = 8 - 1, 5 + 2 = 2 + 5, 4 + 1 = 5 + 2. Associative property of addition.) {Students need not use formal terms for these properties}
- 1.0A.D.8 Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations 8 + ? = 11, 5 = ? - 3, 6 + 6 = ?.

■ Major Cluster □ Supporting Cluster ○ Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
 Self-Management
 Social Awareness
 Relationship Skills
 Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

're-Assessment Modifications (ELL, Special Education, Gifted, At-ri		
ns (ELL, Special Education, Gifted, At-risk of Failure, 504) and		

Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment (Quick Checks, Exit Tickets, Math Notebooks, Personal Math Trainer Activities, etc).	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
1.NBT.A.1 – WALT count to 120	Recall and apply number sequence	• count to 120	 Introduce the 120 chart as a math tool Count by ones to 120 Count by tens to 120 	Introduce the 120 Chart as a math tool Count by ones to 120 Count by tens to 120 Students with the support individualized education plan.

1.NBT.B.2 – WALT the numbers 11 to 19 are made	1.NBT.B.2 - WALT 10 can be thought of as a bundle of ten ones called a "ten"						1.NBT.A.1 – WALT represent up to 50 objects with a written number	numbers within 50	WALT in 50	1.NBT.A.1 – WALT count on from any number within 120
Create a model of numbers 11 through 19	Count and organize objects in groups of ten.						Count a set of objects and identify the corresponding number.	number.	Identify a given number visually and recall its name.	Recall and apply number sequence
Draw or make a	 Use objects to create bundles of ten. 						 Count a set of objects and write a number to represent each group. 	• Fill in missing numbers on a 120 number chart (within 50)	 Represent a given number between 1 and 50 by drawing a simple picture. Orally name a given number 	• count on from any number to 120
Use different ways to	 Introduce base ten blocks Group ones (units) into groups of ten and exchange each [group of 10] for one ten (rod). 	Go Math Lessons: 6.1, 6.2	Counting to 120 Video	120 Number Board	Virtual 120 Chart	 Count and record the number of objects in a "mystery bag". 		Write in missing numbers on the 120 chart	 Identify missing numbers Identify patterns on the 120 chart 	Practice counting on from different numbers

make a number Use pictures to compare and subtract			1.OA.A.1 – WALT solve addition and subtraction word problems within 10 involving
adding to or taking from Make a model to show adding to or taking from Make a model to show putting together or taking apart Make a model to solve addition or subtraction problems Show all the ways to	drawings, or symbols to identify the unknown in a given word problem.	and use manipulatives, drawings, models, and equations to "act out" the story to determine the best way to solve.	a word problem using objects, drawings, or equations using a symbol for the unknown
Go Math Lessons: 6.3, 6.4, 6.5, 6.6, 6.7, 6.8 Use pictures to show	• Use nictures	Read a word problem	100 A 1 - WAI T represent
Hand2Mind Number and Operations in Base Ten Resource	HIOH		
Didax Base Ten Blocks	Ī		
Base Ten	lbr.		
Unifix Cubes	Ī		
of ten using objects, pictures, and numbers Group cubes to show a number as tens and ones Group objects to show numbers as tens and ones Make a model to show numbers in different ways		±	
and ones using objects, pictures, and numbers Model and name groups			
Show a number as tens	19 as tens and ones		eight, or nine ones
and ones	model to show the	and extra ones.	up of one ten and one, two,

stituations of adding to, laking from, putting together, taking with unknowns in all positions Act out a problem to solve it of determine whether to add or subtract or Choose an operation of Sort Addition and Subtract or Choose an operation of Sort Addition and Subtraction Math Stories 1.O.A.C.5 - WALT relate counting to addition in the to count on. 1.O.A.C.5 - Walter TouchPoints on problems using the "count or strategy" of Solve addition unmber sentences by counting on pushing a number line. 5. Solve addition unmber sentences by counting on using a number line. 5. Solve addition on in the count on in the count on in a number line. 5. Solve addition on in the count on in a number line. 5. Solve addition on unmber sentences by counting on in using a number line. 5. Solve addition on in the count on in a number line. 5. Solve addition on in the count on in a number line. 5. Solve addition on unmber sentences by counting on in using a number line. 5. Solve addition on in the count on in a number line. 5. Solve addition on unmber sentences by counting on in using a number line. 5. Solve addition on in the count on on a number line. 5. Solve addition on unmber sentences by counting on in uning a number line. 5. Solve addition on unmber sentences by counters.				
Use TouchPoints on numbers or a number problems using the "count on." (Touchpoints, Number Line, etc).	Didax Number Line	#5"		
Use TouchPoints on numbers or a number "count on." Use TouchPoints on problems using the "count on" strategy (Touchpoints, Number Line, etc).	Ten Frame and Counters			
Use TouchPoints on numbers or a number line to count on. Solve addition problems using the "count on" strategy (Touchpoints, Number Line, etc).		٥		
Use TouchPoints on Problems using the line to count on. Use TouchPoints on Problems using the "count on" strategy (Touchpoints, Number Line, etc).	sentences by counting on 1, 2, or 3 more on a			
Use TouchPoints on numbers or a number line to count on. Solve addition problems using the "count on" strategy (Touchpoints, Number Line, etc).			y	
Use TouchPoints on numbers or a number line to count on. Solve addition problems using the count on. Your Touchpoints, Number Line, etc).	• Introduce counting on			
Use TouchPoints on number ocumt on. Solve addition problems using the fine to count on. Touchpoints, (Touchpoints,	TouchPoints to count on	Number Line, etc).		
Use TouchPoints on problems using the		"count on" strategy (Touchpoints,	line to count on.	
			numbers or a number	counting to addition
	2.4, 2.3, 2.0, 2.0			
	1.3, 1.4, 1.7, 2.1, 2.2, 2.3,			
	Co Worth Language 11112			
Rec Ten	Hand2Mind Operations and Algebraic Thinking Resource			
Rec Cot	Unifex Cubes			
Rec	Counters			
	Red/Yellow Counters in a Ten Frame			,
	Subtraction Math Stories			
• • •	Choose an operation Sort Addition and			
• • •	determine whether to add			
• •				unknowns in all positions
•	 Act out a problem to 			apart, and comparing, with
	and subtract			from putting together taking

objects, and drawings to			
Use pictures, models, objects, and drawings to demonstrate how adding zero to any number produces a sum that is the same as that number. Add 0 Use pictures, models, objects, and drawings to demonstrate how changing the order of addends does not change the sum. Add numbers in any order Use pictures, models,	• Use commutative and identity properties to add and subtract given equations.	Identify the parts and whole in an equation and recognize the relationship between addition and subtraction.	1.OA.B.3 – WALT apply the commutative and identity properties as strategies to add and subtract
Go Math Lessons: 3.2, 4.1			
Hand2Mind Operations and Algebraic Thinking Resource			
Printable TouchLines			
Didax Number Line			
 Solve subtraction number sentences by using TouchPoints to count on 1, 2, or 3. Solve subtraction number sentences by counting back 1, 2, or 3 on a number line. Count back to subtract 	 Solve subtraction problems using the "count on" strategy (Touchpoints, Number Line, etc). 	Use TouchPoints on numbers or a number line to count back.	1.OA.C.5 – WALT relate counting to subtraction
GoMath Lessons: 3.2			
Hand2Mind Operations and Algebraic Thinking Resource			
Printable TouchLines			

1.OA.D. determir number equation or subtra true**	determine involving subtraction or false	sign mea equal sig value in subtracti		
1.OA.D.8 – WALT determine the unknown number that makes an equation involving addition or subtraction within 10 true**	1.OA.D.7 – WALT determine if equations involving addition and subtraction within 10 are true or false	1.OA.D.7 – WALT an equal sign means both sides of the equal sign have the same value in an addition or subtraction equation within 10		
Recall known facts to identify a missing number in an equation. Identify the parts and whole in an equation.	Draw pictures to represent an addition or subtraction sentence to prove the value is true or false.	Identify the value of each side of the equal sign in an equation and recognize whether they are the same [value].		
•		•		
Fill in missing numbers in equations to show both sides of the equal sign have the same value.		Identify equations that represent the same value on either side of the equal sign.		
 Introduce related facts Connect related facts to previously taught models (bar models, part-part-whole models, etc). Use related facts to find 		 Introduce and explain the meaning of the equal sign. Use a scale and connecting cubes to show that both sides of the equal sign are the same. 	Hand2Mind Operations and Algebraic Thinking Resource Go Math Lessons: 1.5, 1.6, 3.1, 3.10, 3.11	demonstrate how one can group three addends in different ways and still get the same sum. • Add three addends with and without manipulatives

		part to the whole to determine an unknown part.	Count up from a given
Go Math Lessons: 2.7, 5.5, 5.6	Hand2Mind Operations and Algebraic Thinking Resource	Addends of Ten Activity (with missing addend cards)	unknown numbers

Benchmark Assessment 1

mark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	
20	rk Assessment	

Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
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Unit 1 - Module B

Unit Title: Mathematics – Strategies for Addition and Subtraction – Unit 1 – Module B

Grade level: Grade 1

Timeframe: Marking Period 1

Rationale

Grade 1 – Strategies for Addition and Subtraction – Unit 1

understanding as they learn that a ten is a bundle of ten ones and can be used to compose numbers 11 through 19. counting to 120, reading and writing numbers through 50 and representing objects with a written number. Learners build place value The primary focus of Unit 1 is addition and subtraction. Building upon the counting sequence mastered in Kindergarten, learners begin

for addition and subtraction and use equations with an unknown in any position. An important conceptual understanding for their future work in mathematics is the meaning of the equal sign. Learners use this understanding to determine if addition and subtraction equations are true or false. Learners solve word problems using various strategies

two-dimensional shapes. Introducing composite two-dimensional shapes is essential for expanding geometric skills and concepts from kindergarten. Grade 1 learners move beyond describing objects in the environment using two-dimensional shapes to composing new shapes from composite

Note: Double asterisks (**) indicate that the example(s) included within the New Jersey Student Learning Standard may be especially informative when considering the Student Learning Objective.

Essential Questions

Standards

Standards (Taught and Assessed):

shapes from the composite shape. shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new 1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional

Key: Major Cluster Supporting Cluster Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

9.1.4.A.2 Evaluate available resources that can assist in solving problems.

9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success. 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.

CRP1. Act as a responsible and contributing citizen and employee.

CRP2. Apply appropriate academic and technical skills.

CRP4. Communicate clearly and effectively and with reason.

CRP6. Demonstrate creativity and innovation.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

Self-Awareness

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Self-Management

Social Awareness

Relationship Skills

Responsible Decision-Making

Major Cluster

Key:

Supporting Cluster

Additional Cluster

Instructional Plan

Pre-Assessment and Reflection

Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

12.5,	GoMath Lesson 12.3, 12.4, 1: 12.6, 12.7			
	Hand2Mind Geometry Activities			
	ABCYa Tangrams	540		2
	Mathigon Tangrams	T.		
	Virtual Pattern Blocks			
F	Introduce pattern blocks Introduce shapes and their attributes Explain that composite shapes are made up of individual shapes. Describe shape attributes using formal geometric language. Introduce and model tangram activities.	 Identify two dimensional shapes and identify composite shapes. 	Visualize and identify individual shapes within a bigger composite shape.	1.G.A.2 – WALT a composite shape is a shape built by combining other shapes
	Activities and Resources	Formative Assessment (Quick Checks, Exit Tickets, Math Notebooks, Personal Math Trainer Activities, etc).	Student Strategies	SLO – WALT We are learning to/that

1.G.A.2 – WALT compose new shapes from composite shapes		1.G.A.2 – WALT compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) to create a composite shape
Visualize and use pattern blocks to identify two-dimensional and composite shapes.	=	Use pattern blocks to create a model of a given composite shape.
 Combine composite shapes to create new shapes. 		 Identify and name the two dimensional shapes that make up a composite shape. Use two dimensional shapes to create a given composite shape.
• Take apart two- dimensional shapes Virtual Pattern Blocks Shape Tool Mathigon Tangrams ABCYa Tangrams	 Continue composite shapes to form a pattern or a new shape. Use the act it out strategy to make new shapes from combined shapes Find shapes in other 	 Put two-dimensional shapes together to make new two-dimensional shapes Compose two-dimensional shapes by joining two, three, or four figures to produce a target shape in more than one way. Combine two-dimensional shapes to make new shapes Use pattern blocks and activity cards to create composite shapes. Combine pattern blocks to form composite shapes.

GoMath Lesson 12.3, 12.4, 12.5, 12.6, 12.7	Hand2Mind Geometry Activities
12.5,	

Benchmark Assessment 1

Vetternons

Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections

Summative Assessments (add rows as needed)

Summative Assessment Modification	lodifications (ELL, Special Education, Gifted, At-risk of Failure, 504
Reflections	effections
Reflections	s (ELL, Special Education, Gifted, At-risk of Fall

Interdisciplinary Connections	Interdisciplinary Connections	