









Grade K Mathematics
Unit 6: Subtraction Within 5

Updated August 2024

Trimester	Unit Title	Recommended Instructional Days
1	Subtraction Within 5	7 - 9 days
Domain: Operations and Algebraic Thinking		
<p><i>Strand:</i></p> <p> K.OA.A.1 Represent addition and subtraction up to 10 with objects, fingers, mental images, drawings, sounds, acting out situations, verbal explanations, expressions, or equations.</p> <p> K.OA.A.2 Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem. </p> <p> K.OA.A.5 Demonstrate accuracy and efficiency for addition and subtraction within 5.</p> <p align="center">  Major Cluster  Supporting Cluster  Additional Cluster  Climate Change Opportunity </p>		
<p><i>Progress Indicator:</i> ◊ Tests ◊ Homework / Classwork ◊ Projects ◊ Formative assessments ◊ Summative assessments ◊ Performance Based Assessments</p>		
Mathematical Practices:		
<ol style="list-style-type: none"> 1. Make sense of problems and persevere in solving them. 2. Reason abstractly and quantitatively. 3. Construct viable arguments and critique the reason of others. 4. Model with mathematics. 5. Use appropriate tools strategically. 6. Attend to precision. 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning. 		

Recommended Activities, Investigations, Interdisciplinary Connections, and/or Student Experiences to Explore NJSLs-CLKS within Unit

Essential Questions:

Lesson 1: What is a subtraction equation?

Lesson 2: How can subtraction take apart two groups?

Lesson 3: How can you use objects or drawings to show a subtraction equation is true?

Lesson 4: How can you write and solve subtraction equations within 5?

Lesson 5: What words help you to know to subtract?

Essential Understandings:

1. Use symbols to write a subtraction equation.
2. Use subtraction to take apart two groups.
3. Use objects or drawings to show why a subtraction equation is true.
4. Write and solve subtraction equations within 5.
5. Solve subtraction word problems within 5.

Vocabulary:

- subtract
- difference

Suggested Activity Description:

Playful engagement, Active Child, Daily calendar routine, Whole group mini-lesson, Small group explorations, Waggle, On the Spot Videos, Tier 2 and 3 Intervention Resources, Vocabulary Activities, Grab and Go Differentiation Kit, Explore and Guided/Independent Practice related to the NJSLs, Essential Question Discussion and Check-In, Share and Show, Basic Skills Review, Manipulative Activity, Reteach Activity, Reading Strategies Activity, Making Connections, Multilingual Support, Performance Task, Enrich Activity, Exit Ticket

Interdisciplinary Connections:

Science:

(Lesson 6.1)

Materials: Connecting cubes

1. Demonstrate how objects fall to the ground. Raise your hand above a desk and ask children to observe as you let cubes fall to the ground.
2. Discuss what happens and why. Talk about how objects fall if they are not supported.
3. Tell the separating story problem and have a volunteer model it with cubes. I have 5 cubes in my hand. Suddenly 3 fall to the ground. How many cubes are left in my hand? 2

Social Studies:

(Lesson 6.1)

Materials: Play or real money (coins and bills)

1. Show children coins and bills and tell them these are all types of American money.
2. Discuss how our money can be both paper bills and coins. Show and discuss the differences of each.
3. Say the following separating story problem. Have children draw a picture to go with the story. 5 coins are in Pedro’s bank. He takes out 1 coin. How many coins are left?
4. Continue with other separating story problems.

Language Arts:

1. Vocabulary Builder TE pg. 194.



Climate Change: Students may use counters or a drawing for the following problem: There are 5 apples on an apple tree. A farmer picks 3 apples from the tree. How many apples have not been picked? Draw a tree with 5 apples. Circle or cross out 3 apples to show they were picked. With prompting and support, students may ask and answer questions about the effect of sunlight and water on the growth of trees and their fruit.

Spot Light On: Group work/stations where classmates are included.

Social and Emotional Learning: Competencies	Social and Emotional Learning: Sub-Competencies
<p>SEL Competencies:</p> <ul style="list-style-type: none"> • Self- awareness • Social Awareness • Self- Management • Relationship Skills • Responsible Decision-Making 	<ul style="list-style-type: none"> • Recognizing the importance of self-confidence in handling daily tasks and challenges. • Demonstrate an awareness of the expectations for social interactions in a variety of ways. • Demonstrate an understanding of the need for mutual respect when viewpoints differ. • Identify and apply ways to persevere through alternative methods to achieve goals. • Utilize positive communication and social skills to interact effectively with others. • Develop, implement, and model effective problem solving and critical thinking skills.

Grade K Mathematics
Unit 6: Subtraction Within 5

Updated August 2024

Assessments (Formative) <i>To show evidence of meeting the standard/s, students will successfully engage within:</i>		Assessments (Summative) <i>To show evidence of meeting the standard/s, students will successfully complete:</i>	
Formative Assessments: • Teacher Observations • Exit Tickets • Quizzes • Self Assessments • Math Journals • Homework/Classwork • Teacher created assessments		Benchmarks & Summative Assessments: Chapter/Unit Assessments • Standardized Tests • Project-based Assessments	
Differentiated Student Access to Content: Teaching and Learning <i>Resources/Materials</i>			
Core Resources	Alternate Core Resources <i>IEP/504/At-Risk/ESL</i>	ELL Core Resources	Gifted & Talented Core Resources
Go Math Workbook, Interactive Student Edition, ST MATH 60 minutes a week, Waggle, Math on the Spot Videos, iReady, Khan Academy, Illustrative Mathematics, Learn360, TeacherTube, BrainPOP, Freckle, LearnZillion, MobyMax, Achieve the Core, Desmos, RTI	Reteaching worksheets, Skill building workbook, Math manipulatives, iTools, Leveled practice worksheets	Multilingual glossary, eGlossary, Multilingual Activities on ED, Vocabulary Cards, Success for English Learners worksheets, Leveled Strategies for English Learners, Linguistic Support	ST MATH special projects, Enrichment worksheets, Art of Problem Solving, Leveled assessments
Supplemental Resources			
Technology: • Chromebooks • Online math manipulatives Other: • Google Classroom, Google Meets, Schoology, Interactive Workbooks • Illustrative Mathematics • insidemathematics.org • National Library of Virtual Manipulatives			

Differentiated Student Access to Content: Recommended <i>Strategies & Techniques</i>			
Core Resources	Alternate Core Resources <i>IEP/504/At-Risk/ESL</i>	ELL Core Resources	Gifted & Talented Core
Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, provide individual instruction as needed, modify assessments and/or rubrics, repeat	Utilize a multi-sensory (VAKT) approach during instruction, provide alternate presentations of skills by varying the method (repetition, simple explanations, additional examples, modeling, etc.), modify test content and/or format, allow students to retake test for additional credit, provide additional times and preferential seating as needed, review, restate and repeat directions, provide study guides, and/or break assignments into segments of shorter tasks.	Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of an online bilingual dictionary, and modified assessment and/or rubric.	Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and connect student to related

NJSLS CAREER READINESS, LIFE LITERACIES & KEY SKILLS	Disciplinary Concept(s): Global and Cultural Awareness	
	Core Ideas:	Individuals from different cultures may have different points of view and experiences
	Performance Expectation/s:	9.4.2.CI.1 Demonstrate openness to new ideas and perspectives
	Career Readiness, Life Literacies, & Key Skills Practices	
	<p>Act as a responsible and contributing community member and employee. Attend to financial well-being. Consider the environmental, social and economic impacts of decisions. Demonstrate creativity and innovation. Utilize critical thinking to make sense of problems and persevere in solving them. Model integrity, ethical leadership and effective management.</p>	

Grade K Mathematics
Unit 6: Subtraction Within 5

Updated August 2024

	<p>Plan education and career paths aligned to personal goals. Use technology to enhance productivity, increase collaboration and communicate effectively. Work productively in teams while using cultural/global competence.</p>
--	--

New Jersey Legislative Statutes and Administrative Code (place an "X" before each law/statute if/when present within the curriculum map)								
Amistad Law: <i>N.J.S.A. 18A 52:16A-88</i>		Holocaust Law: <i>N.J.S.A. 18A:35-28</i>		LGBT and Disabilities Law: <i>N.J.S.A. 18A:35-4.35</i>	X	Diversity & Inclusion: <i>N.J.S.A. 18A:35-4.36a</i>	X	Standards in Action: <i>Climate Change</i>