Belvidere Cluster Wide Mathematics Curriculum Kindergarten Updated Fall 2018

All Belvidere Cluster curriculum and instruction areas are aligned to the New Jersey Student Learning Standards (NJSLS) in accordance with the NJ Department of Education's curriculum implementation requirements.

Interdisciplinary Connections

– English Language Arts

- Science and Scientific Inquiry (Next Generation)

Social Studies

Technology

- Visual and Performing Arts

Technology Standards and Integration

iPads

eSpark

Go Math online resources

Xtra Math

Interactive SmartBoard activities

NJSLA Technology

8.1.2.A.2

Create a document using a word processing application.

8.1.2.A.4

Demonstrate developmentally appropriate navigation skills in virtual environments (i.e.

games, museums).

8.1.P.B.1

Create a story about a picture taken by the student on a digital camera or mobile device.

8.1.P.C.1

Collaborate with peers by participating in interactive digital games or activities.

8.1.2.E.1

Use digital tools and online resources to explore a problem or issue.

CAREER EDUCATION (NJDOE CTE Clusters)

- Education & Training

– Finance

– Information Technology

- Science, Technology, Engineering & Mathematics (STEM)

21st Century Skills/ Themes

- Financial, Economic, Business and Entrepreneurial Literacy
- Creativity and Innovation

- Critical Thinking
- Problem Solving
- Communication
- Collaboration
- Information Literacy

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

CRP2. Apply appropriate academic and technical skills.

CRP3. Attend to personal health and financial well-being.

CRP4. Communicate clearly and effectively and with reason.

CRP5. Consider the environmental, social and economic impacts of decisions.

CRP6. Demonstrate creativity and innovation.

CRP7. Employ valid and reliable research strategies.

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

CRP9. Model integrity, ethical leadership and effective management.

CRP10. Plan education and career paths aligned to personal goals.

CRP11. Use technology to enhance productivity.

CRP12. Work productively in teams while using cultural global competence.

Integrated Accommodations and Modifications

Special Education

- Printed copy of board work/notes provided
- Additional time for skill mastery
- Assistive technology
- Behavior management plan
- Center-Based Instruction
- Check work frequently for understanding
- Computer or electronic device utilization
- Extended time on tests/ quizzes
- Have student repeat directions to check for understanding
- Highlighted text visual presentation
- Modified assignment format
- Modified test content
- Modified test format
- Modified test length
- Multiple test sessions
- Multi-sensory presentation
- Preferential seating
- Preview of content, concepts, and vocabulary
- Reduced/shortened written assignments
- Secure attention before giving instruction/directions
- Shortened assignments
- Student working with an assigned partner
- Teacher initiated weekly assignment sheet
- Use open book, study guides, test prototypes
- Cubing activities
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills Open-ended activities
- Think-Pair-Share
- Varied supplemental materials

<u>ELL</u>

- Allowing students to correct errors (looking for understanding)
- Teaching key aspects of a topic Eliminate nonessential information Using videos, illustrations, pictures, and drawings to explain or clarify
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slideshows, videos, etc.) to demonstrate student's learning
- Allowing students to correct errors (looking for understanding)
- Allowing the use of note cards or open-book during testing
- Decreasing the amount of work presented or required
- Having peers take notes or providing a copy of the teacher's notes
- Modifying tests to reflect selected objectives
- Providing study guides
- Reducing the number of answer choices on a multiple choice test
- Tutoring by peers
- Explain/clarify key vocabulary terms

<u>At Risk</u>

- Allowing students to correct errors (looking for understanding)
- Teaching key aspects of a topic Eliminate nonessential information allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slideshows, videos, etc.) to demonstrate student's learning
- Allowing students to select from given choices .
- Allowing the use of note cards or open-book during testing
- Collaborating (general education teacher and specialist) to modify vocabulary, omit or modify items to reflect objectives for the student, eliminate sections of the test, and determine how the grade will be determined prior to giving the test
- decreasing the amount of work presented or required .
- Having peers take notes or providing a copy of the teacher's notes
- Marking students' correct and acceptable work, not the mistakes
- Modifying tests to reflect selected objectives
- Providing study guides
- Reducing the number of answer choices on a multiple choice test
- Tutoring by peers
- Using authentic assessments with real-life problem-solving
- Using true/false, matching, or fill in the blank tests in lieu of essay tests
- using videos, illustrations, pictures, and drawings to explain or clarify
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills Open-ended activities
- Think-Pair-Share
- Varied supplemental materials

Gifted and Talented

- Alternative formative and summative assessments
- Choice boards
- Games and tournaments
- Group investigations
- Independent research and projects Interest groups for real world application
- Learning contracts
- Leveled rubrics
- Multiple intelligence options

- Personal agendas
- Project-based learning
- Problem-based learning
- Stations/centers
- Think-Tac-Toes
- Tiered activities/assignments
- Tiered products

<u>504</u>

- Printed copy of board work/notes provided
- Additional time for skill mastery
- Assistive technology
- Behavior management plan
- Center-Based Instruction
- Check work frequently for understanding
- Computer or electronic device utilization
- Extended time on tests/ quizzes
- Have student repeat directions to check for understanding
- Highlighted text visual presentation
- Modified assignment format
- Modified test content
- Modified test format
- Modified test length
- Multiple test sessions
- Multi-sensory presentation
- Preferential seating
- Preview of content, concepts, and vocabulary
- Reduced/shortened written assignments
- Secure attention before giving instruction/directions
- Shortened assignments
- Student working with an assigned partner
- Seacher initiated weekly assignment sheet
- Use open book, study guides, test prototype
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Mini workshops to re-teach or extend skills Open-ended activities
- Think-Pair-Share
- Varied supplemental materials

		Cluster Wide
		s Curriculum
		rgarten
		Daily Routines
Title: Daily Rou		
Grade Level:		Length of Time: Approximately 2 weeks
	ut the year to foster students' understan	5
		g Targets
	PARCC Major Clusters; Supporting and Cardinality	rting Clusters; 🜼 Additional Clusters
	number names and the count sequence	<u>م</u>
Standard #:	Standard:	6.
K.CC.1	Count to 100 by ones and by tens.	
	surement and Data	
	ify objects and count the number of objects	ects in each category
Standard # :	Standard:	
K.MD.3	sort the categories by count.	s; count the numbers of objects in each category and
	dards for Math Practice	
Standard #		Standard
MP1	Making sense of problems and persevere in solving them.	
MP2	Reason abstractly and quantitatively.	
MP3	Construct viable arguments and critique the reasoning of others.	
MP4	Model with mathematics.	
MP5	Use appropriate tools strategically.	
MP6	Attend to precision.	
MP7	Look for and make use of structure.	
MP8	Look for and express regularity in repe	eated reasoning.
Unit Essential	Question:	Unit Enduring Understandings:
 How can you 	use numbers to help with daily	Numbers can be used daily.
classroom ro	utines?	Number sense develops through experience.
Unit Objective	:	
 Students will 	be able to participate daily in classroon	n routines that involve math.
		of Learning
Possible Form	native Assessments:	
	sponse questions used throughout the u	unit.
 Graded Class Observation 		
 Chapter Tes 		
 Drawings 	·	
	mative Assessment:	
Unit Check	list	
Benchmark As	ssessments:	
Go Math B	enchmark	
Drawings Possible Sum Unit Check Benchmark As	mative Assessment: dist ssessments:	

Unit Assessment	
Alternative Assessments:	
Choice boards - projects	
Skit	
Student-created calendar	
Suggested L	esson Plans
Lessons	Timeframe
Lesson #1: Calendar Routines	1 day
Lesson #2: Number of School Days	1 day
Lesson #3: Daily Schedule Routine	1 day
Lesson #4: Temperature & Weather	1 day
Lesson #5: Attendance Routine	1 day
Lesson #6: Lunch Routine	1 day
Lesson #7: Practice Routines	4 days
Curriculum Resources:	
• https://njctl.org/courses/math/kindergarten-mat	<u>h/calendar-math/</u>
 Approved Classroom Resources 	
Lesson Co	omponents
21st Century Skills	
• Financial, Economic, Business, and Entrepreneuri	al Literacy
21st Century Themes	
Critical Thinking and Problem Solving	
Communication and Collaboration	
Life and Career Skills	

	Belvidere C	
	Mathematics	
		garten
		ing and Cardinality
	and Cardinality	
Grade Level: K		Length of Time: Approximately 7 weeks
		understanding of counting and numbers. It will also
explore the varie	ous terminology that can be used to de	
	ARCC 📕 Major Clusters; 🗖 Suppor ting and Cardinality	rting Clusters; 🜼 Additional Clusters
		200
Cluster: Know	number names and the count seque	ence.
Standard #s:	Standard:	
K.CC.1	Count to 100 by ones and by tens.	
K.CC.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	
K.CC.3	Write numbers from 0 to 20. Represe (with 0 representing a count of no ob	ent a number of objects with a written numeral 0-20 iects)
Cluster: Count	to tell the number of objects.	<u>,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Standard #s:	Standard:	
K.CC.4	Understand the relationship between numbers and quantities; connect counting to cardinality.	
		umber names in the standard order, pairing each r name and each number name with one and only one
		ame said tells the number of objects counted. The dess of their arrangement or the order in which they
	c. Understand that each successive	number name refers to a quantity that is one larger.
K.CC.5	Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.	
Cluster: Comp		
Standard #s :	Standard:	
K.CC.6	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.1	
K.CC.7	Compare two numbers between 1 ar	•
Unit Essential		Unit Enduring Understanding:
•	• Why is counting necessary? • Quantities can be counted and compared	
When do we r	need to compare numbers?	using words and numerals.
ordinal	's will be able to count by fives, tens, tv numbers. 's will learn to count items in a total gro	vos and backwards. They will also be able to use hup, matching each object with one and only one
Student	's will practice stroke formation and the	em numbers 0-9. proper terminology to describe groups of items.
	Evidence of	of Learning

Possible Formative Assessments:	
 SMART Response questions used throughout the 	e unit.
 Graded Classwork 	
Homework	
Observation	
Chapter Tests	
Drawings	
Possible Summative Assessment:	
Unit Checklist	
Benchmark Assessments:	
Go Math Benchmark	
Unit Assessment	
Alternative Assessments:	
Choice boards - projects	
Skit	
 Student-created calendar 	
Suggested	Lesson Plans
Lessons	Timeframe
Lesson #1: Count Sequence	1 week
Lab: RAFT-Sit Down Count	
Lesson #2: Numbers 0-6	1 week
Lab: RAFT-Counting Towers	
Lesson #3: Numbers 6-10	1 week
Lab: Raft-Hungry Bunnies	
Lesson #4: Number Writing 0-10	2 weeks
Lesson #5: Comparing Numbers (One-to-one)	1 week
Lesson #6: Comparing Numbers (More, Less,	1 week
Same, Least, Fewer, Greater Than, etc.)	
Same, Least, Fewer, Greater Than, etc.) Curriculum Resources: • <u>https://njctl.org/courses/math/kindergarten-m</u>	
Same, Least, Fewer, Greater Than, etc.) Curriculum Resources: • <u>https://njctl.org/courses/math/kindergarten-m</u> • <u>http://www.raftbayarea.org/ideas/Sit%20Down%2</u>	20Count.pdf
Same, Least, Fewer, Greater Than, etc.) Curriculum Resources: • <u>https://njctl.org/courses/math/kindergarten-m</u>	20Count.pdf owers.pdf
Same, Least, Fewer, Greater Than, etc.) Curriculum Resources: • <u>https://njctl.org/courses/math/kindergarten-m</u>	

	Belvidere C	luster Wide	
		s Curriculum	
		rgarten	
		rs in Base Ten 11-19	
Title: Numbers			
Grade Level: K	lindergarten	Length of Time: Approximately 2 weeks	
		n understanding of the numbers 11-19.	
		g Targets	
	ARCC 📕 Major Clusters; 🗖 Suppo	rting Clusters; 📀 Additional Clusters	
	ting and Cardinality		
Cluster: Know	number names and the count sequenc	e.	
Standard #:	Standard:		
K.CC.3	Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).		
Cluster: Count	to tell the number of objects.		
K.CC.5	Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1–20, count out that many objects.		
Cluster: Comp			
K.CC.6		ts in one group is greater than, less than, or equal to up, e.g., by using matching and counting strategies.	
Domain: Numb	per & Operations in Base Ten		
Cluster: Work	with numbers 11-19 to gain foundations	s for place value.	
Standard # :	Standard:		
K.NB.1T	e.g., by using objects or drawings, ar	from 11 to 19 into ten ones and some further ones, nd record each composition or decomposition by a 0 + 8); understand that these numbers are composed , five, six, seven, eight, or nine ones.	
Unit Essential	Questions:	Unit Enduring Understandings:	
• How can we t	ell how much?	Groups of objects of 11-19 things can be	
• How can we tell if objects are greater than, less grouped into one ten and ones. than or equal to another group of objects?		around into one ten and ones	
		grouped into one ten and ones.	
than or equal	to another group of objects?	grouped into one ten and ones.	
than or equal Unit Objective • Studen	to another group of objects? s: ts will be able to identify the number of	objects in a group up to 20.	
than or equal Unit Objective • Studen • Studen • Studen	to another group of objects? s: ts will be able to identify the number of ts will be able to write the numbers up t	objects in a group up to 20.	
than or equal Unit Objective Studen Studen	to another group of objects? s: ts will be able to identify the number of ts will be able to write the numbers up t ts will decide is one group is greater the	objects in a group up to 20. to 20. an, less than or equal to the number of objects in a	
than or equal Unit Objective Studen Studen group.	to another group of objects? s: ts will be able to identify the number of ts will be able to write the numbers up t ts will decide is one group is greater the	objects in a group up to 20. to 20.	
than or equal Unit Objective • Studen • Studen group. Possible Form • SMART Res • Count the nu • Select the la • Build a num	to another group of objects? s: ts will be able to identify the number of ts will be able to write the numbers up ts will decide is one group is greater the Evidence of	o bjects in a group up to 20. to 20. an, less than or equal to the number of objects in a of Learning	
than or equal Unit Objectives • Studen • Studen group. Possible Form • SMART Res • Count the nu • Select the la • Build a numl • Match numb	to another group of objects? s: ts will be able to identify the number of ts will be able to write the numbers up a ts will decide is one group is greater the Evidence of ative Assessments: sponse questions used throughout the umber of objects in a group rger/smaller group ber using tens and ones	o bjects in a group up to 20. to 20. an, less than or equal to the number of objects in a of Learning	
than or equal Unit Objectives • Studen • Studen group. Possible Form • SMART Res • Count the nu • Select the la • Build a numl • Match numb	to another group of objects? s: ts will be able to identify the number of ts will be able to write the numbers up a ts will decide is one group is greater the Evidence of ative Assessments: sponse questions used throughout the umber of objects in a group rger/smaller group ber using tens and ones <u>er to group of items</u> mative Assessment: list	o bjects in a group up to 20. to 20. an, less than or equal to the number of objects in a of Learning	

Benchmark Assessments:	
Go Math Benchmark	
Unit Assessment	
Alternative Assessments:	
Choice boards - projects	
• Skit	
 Student-created calendar 	
Suggested	Lesson Plans
Lessons	Timeframe
Lesson #1: Numbers 11-14	2 days
Lab: RAFT-Race to the Top	-
Lesson #2: Numbers 15-16	1 day
Lesson #3: Numbers 17-18	1 day
Lesson #4: Number 19	1 day
Lab: RAFT-Treasure Hunt	
Lesson #5: Activities	3 days
Lesson #6: Reading and Writing 2 Digit Numbers	2 days
Curriculum Resources:	
• http://njctl.org/courses/math/kindergarten-math/#	
http://www.raftbayarea.org/ideas/Race%20to%20t	he%20Top.pdf
http://www.raftbayarea.org/ideas/Treasure%20Hui	<u>nt.pdf</u>

Belvidere Cluster Wide			
Mathematics Curriculum			
Kindergarten			
Unit Plan # 4 Data			
Title: Data			
Grade Level: K	indergarten	Length of Time: Approximately 3 weeks	
		ting and classifying objects. They will be able to	
answer question	ns about charts and graphs as well as a		
P	Learning ARCC I Major Clusters; I Suppor		
	urement and Data		
	fy objects and count the number of	objects in each category	
Standard #:	Standard:		
K.MD.3		; count the numbers of objects in each category and	
I.W.D.O		tegory counts to be less than or equal to 10.	
Unit Essential	Question:	Unit Enduring Understandings:	
How are object	cts classified?	 Charts and graphs are helpful ways to display 	
		data.	
Unit Objectives			
	ts will sort and classify objects into cate		
Student	ts will display data using tally charts, ve		
Dessible Form	Evidence of ative Assessments:	of Learning	
		unit.	
 Graded Class 	ponse questions used throughout the ι swork	11 III.	
 Observations 			
Homework			
 Drawings 			
	native Assessment:		
Unit Test			
Chapter Tes			
Benchmark Assessments:			
 Go Math Benchmark Unit Assessment 			
Onit Assessment Alternative Assessments:			
 Choice boar Skit 	us - projects		
	ated calendar		
	Suggested L	esson Plans	
	Lessons	Timeframe	
Lesson #1: Sort	ing Introduction	1 day	
	ing by Color and Shape	1 day	
Lab: RAFT – Go			
Lesson #3: Sort		1 day	
Lesson #4: Clas		1 day	
Lab: Sorting Tra Lesson #5: Ven		1 day	
Lab: Fruitful Exp		T day	

Lesson #6: Tally Charts	1 day	
Lesson #7: Pictographs	1 day	
Lesson #8: Vertical Graphs	1 day	
Lesson #9: Horizontal Graphs	1 day	
Lesson #10: Graphing Survey Data	2 days	
Lesson #11: Graphing without Lines	1 day	
Review & Unit Test	3 days	
Curriculum Resources:		
• <u>http://njctl.org/courses/math/kindergarten-math/#</u>		
http://www.raftbayarea.org/ideas/Go%20Fish.pdf		
 <u>http://www.raftbayarea.org/ideas/Sorting%20Trays.pdf</u> 		
 <u>http://www.raftbayarea.org/ideas/Fruitful%20Explorations.pdf</u> 		
Approved Classroom Texts		

	Belvidere C	luster Wide
	Mathematics	
		garten
		Measurement
Title: Measure	ment	
Grade Level: K	indergarten	Length of Time: Approximately 4 weeks
	This unit will develop children's under sobjects and be able to use words to a	standing of measurement and data. Students will describe the comparisons.
	Learning	Targets
	ARCC 📕 Major Clusters; 🗖 Suppo	rting Clusters; 🜼 Additional Clusters
Domain: Measu	urement and Data	
Cluster: Descri	be and compare measurable attribu	tes.
Standard #:	Standard:	
K.MD.1	measurable attributes of a single obj	
K.MD.2	has "more of"/"less of" the attribute, a	neasurable attribute in common, to see which object and describe the difference. <i>For example, directly</i> and describe one child as taller/shorter.
Unit Essential		Unit Enduring Understandings:
 How can object 	cts be compared?	• Objects can be compared using words like: taller, shorter, more, less, heavier and lighter.
 Student hold. 		g non-standard units and standard units. vell as estimate how much volume a container can
• Student		of Learning
Possible Forma	ative Assessments:	
 Observation Performance Build models Select the co 	activities using shapes	unit.
 Unit Test 		
	e assessment	
Benchmark As		
 Go Math Be Unit Assess 	nchmark	
Alternative Ass	essments:	
Skit	ds - projects	
Student-creater	ated calendar	
		1 Plans
	Lessons	Timeframe
	duction to Measuring	3 days
Lesson #2: Non-	-Standard Units	2 days

Lab: RAFT – Totally Tubular – Non Standard		
Measurements Section		
Lesson #3: Standard Units	3 days	
Lab: RAFT – Measure Up		
Lesson #4: Comparing Volume	3 days	
Lesson #5: How Much Can I Hold?	3 days	
Lesson #6: More/Less Volume	2 days	
Lesson #7: Weight	2 days	
Review & Unit Test	2 days	
Curriculum Resources:		
• http://njctl.org/courses/math/kindergarten-math/#		
http://www.raftbayarea.org/ideas/Totally%20Tubular.pdf		
http://www.raftbayarea.org/ideas/Measure%20Up.pdf		
 Approved Classroom Toythooks 		

	Polyidara Cluster Wide
	Belvidere Cluster Wide
	Mathematics Curriculum
	Kindergarten
	Unit Plan # 6 Operations & Algebraic Thinking
	ions & Algebraic Thinking
Grade Level:	
meanings. After students will be	y: This unit will give students an opportunity to explore addition and subtraction and their er modeling addition and subtraction with both the Interactive White Board and manipulatives, e able to fluently add and subtract within 5. Various activities and games will also be used to nots' understandings.
	Learning Targets
	PARCC 📕 Major Clusters; 💶 Supporting Clusters; 😳 Additional Clusters
Domain: Oper	rations & Algebraic Thinking
	erstand addition as putting together and adding to, and understand subtraction as nd taking from.
Standard #:	Standard:
K.OA.1	Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.
K.OA.2	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.
K.OA.3	Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).
K.OA.4	For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.
K.OA.5	Fluently add and subtract within 5.
Unit Essentia	I Question: Unit Enduring Understandings:
• Why do	• Quantities can be combined or taken apart. rategies can I use to add and
Unit Objective • Studen of thin • Studen • Studen loops. • Studen • Studen • Studen • Studen • Studen • Studen	es: nts will be able to show that addition is the putting together and subtraction is the taking apart
Possible Form	native Assessments:
	esponse questions used throughout the unit. ulatives to act out word problems

Possible Summative Assessment:	
Unit Checklist	
Chapter test	
Write a word problem	
Benchmark Assessments:	
 Go Math Benchmark 	
 Unit Assessment 	
Alternative Assessments:	
 Choice boards - projects 	
Skit	
 Student-created calendar 	
Suggeste	d Lesson Plans
Lessons	Timeframe
	Part 1
Lesson #1: Exploring Addition	2 days
Lesson #2: Plus Symbol	2 days
Lesson #3: Number Line Addition	1 day
Lesson #4: Equal Sign	1 day
Lesson #5: Tally Marks	1 day
Lesson #6: Addition Pattern (+1)	1 day
Lesson #7: Counting On	1 day
Lesson #8: Word Problems	1 days
Lesson #9: Addition Loops	1 day
Lesson #10: More Than One Way	2 days
Lesson #11: Vertical Addition	1 day
Lesson #12 Number Facts to 5	1 day
Lab: RAFT – Pick a Stick	4 -1
Lesson #13: Missing Addend	1 day
	Part 2
Lesson #14: Exploring Subtraction Lesson #15: Word Problems	1 day 1 day
Lesson #16: Modeling Subtraction	1 days
Lesson #17: Equal Sign	1 day
Lesson #18: Connecting Cubes	1 day
Lesson #19: Vertical Subtraction	1 day
Lesson #20: Number Facts to 5	1 day
Lab: RAFT – Pick a Stick	
Lesson #21: Addition & Subtraction Games	1 day
Lesson #22: Addition & Subtraction Problem	1 day
Solving	
Curriculum Resources:	

		Cluster Wide cs Curriculum	
		ergarten	
		ometry and Patterns	
Title: Geome	try and Patterns		
Grade Level:	Kindergarten	Length of Time: Approximately 7 weeks	
		basic attributes of 2-D and 3-D shapes. They will also also have students both modeling and creating patterns.	
		ng Targets	
	PARCC 📕 Major Clusters; 🔲 Supp	orting Clusters; 🜼 Additional Clusters	
Domain: Geo	metry		
Cluster: Ident cylinders, and		les, triangles, rectangles, hexagons, cubes, cones,	
Standard #s:	Standard:		
K.G.1	Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as <i>above</i> , <i>below</i> , <i>beside</i> , <i>in front of</i> , <i>behind</i> , and <i>next to</i> .		
K.G.2	Correctly name shapes regardless of their orientations or overall size.		
<mark>K.G.3</mark>	Identify shapes as two-dimensional (lying in a plane, "flat") or three-dimensional ("solid").		
Standard #s : K.G.4	Standard: Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal to the structure of sides and vertices/"corners") and other attributes (e.g., having sides of equal to the structure of sides and vertices/"corners") and other attributes (e.g., having sides of equal to the structure of sides and vertices/"corners")		
K.G.5	 length). Model shapes in the world by building shapes from components (e.g., sticks and clay balls and drawing shapes. 		
K.G.6	Compose simple shapes to form larger shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?"		
Unit Essentia	I Question:	Unit Enduring Understandings:	
 How can our environment be described using positional words and shapes? 		 Shapes can be described by naming them. Positional words describe our environments. 2-D and 3-D shapes can be compared and modeled. 	
StudeStude	es: nts will use positional words to describ nts will describe 2-D and 3-D shapes. nts will paint to model symmetry. nts will model and created patterns.	e their environment.	
		e of Learning	
	native Assessments: esponse questions used throughout the sswork	e unit.	

Drawings				
Possible Summative Assessment:				
Unit Checklist				
Benchmark Assessments:				
Go Math Benchmark				
Unit Assessment				
Alternative Assessments:				
Choice boards - projects				
• Skit				
Student-created calendar				
Suggested Lesson Plans				
Lessons	Timeframe			
Lesson #1: Positions	1 week			
Lesson #2: 2-Dimensional Shapes	1 week			
Lab: RAFT - Concentration				
Lab: RAFT – Shape Lotto				
Lesson #3: 3-Dimensional Shapes	1.5 weeks			
Lesson #4: Symmetry	1 week			
Lesson #5: Equal Parts	1 week			
Lesson #6: Patterns	1.5 weeks			
Lab: RAFT – Green, Yellow, Yellow				
Curriculum Resources:				
• <u>https://njctl.org/courses/math/kindergarten-math/geometry-and-patterns/</u>				
http://www.raftbayarea.org/ideas/Concentration.pdf				
http://www.raftbayarea.org/ideas/Shape%20Lotto.pdf				
 <u>http://www.raftbayarea.org/ideas/Green%20Yellow%20Yellow.pdf</u> 				
Approved Classroom Textbooks				

Balvidara (Cluster Wide			
Mathematics Curriculum				
Kindergarten				
Unit Plan # 8 Optional - Exploring Time and Money				
Title: Exploring Time and Money				
Grade Level: Kindergarten	Length of Time: Approximately 2 weeks			
Unit Summary: This unit will introduce students to per understanding of the clock.	ennies, nickels and dimes. They will also can an initial			
Learning Targets				
Standards: Time and Money are assessed at later gr	ade levels.			
Unit Essential Questions:	Unit Enduring Understandings:			
How is money used to purchase items?How can we use time to describe events?	 Knowing the names for coins and their value is an essential life skill. 			
	 Telling time is an essential life skill 			
Unit Objectives:				
 Students will be able to distinguish between penny, nickels and dimes. Students will understand morning, afternoon and evening. Students will be able to sequence events. Students will be able to compare two activities and determine which takes more/less time. Students will gain an initial understanding of the clock. 				
Evidence	of Learning			
Formative Assessments:				
SMART Response questions used throughout the unit.				
Summative Assessment:				
Unit Checklist				
Benchmark Assessments:				
Go Math Benchmark				
Unit Assessment				
Alternative Assessments:				
Choice boards - projectsSkit				
Student-created calendar				
	Lesson Plans			
Lessons	Timeframe			
Lesson #1:Money & Comparing Coins	1 day			
Lesson #2:Penny	1 day			
Lesson #2:Nickel	1 day			
Lesson #4:Dime	1 day			
Lesson #5:Combination of Coins	1 day			
Lesson #6:Morning, Afternoon, Evening	½ day			
Lesson #7:Sequence	½ day			
Lesson #8: Seasons	1 day			
Lesson #9:Measuring Time	1 day			
Lesson #10:Tools for Measuring Time Lab: RAFT- Sand Timer Primer"	1 day			
Lesson #11:Time Problem Solving 1 day				

Curriculum Resources:

- http://njctl.org/courses/math/kindergarten-math/#
 http://www.raftbayarea.org/ideas/Sand%20Timer%20Primer.pdf