# **Belvidere Cluster Wide** Mathematics Curriculum 1st grade 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

	Belvidere Cluster Wide	
	Mathematics Curriculum	
	1st Grade	
	Calendar Math Unit Plan – On Going	
Title: Calenda		
Grade Level:	1 Approximate Length of Time: 1 week	
	reaction: This unit will introduce students to the First Grade daily calendar routines. These routines roughout the year to foster students' understanding of mathematics.	
	Learning Targets	
	PARCC 🗆 Major Clusters; 💶 Supporting Clusters; 😳 Additional Clusters	
	ations and Algebraic Thinking	
	and Subtract within 20	
Standard #:	Standard:	
1.OA.6	Add and subtract within 20, demonstrating fluency for addition and subtraction within 10.	
	ber and Operations in Base Ten	
Cluster: Exten	d the counting sequence	
Standard #:	Standard:	
1.NBT.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.	
Cluster: Unde	rstand Place Value	
1.NBT.2	Understand that the two digits of a two-digit number represent amounts of tens and ones.	
Domain: Meas	surement and Data	
Cluster: Tell a	nd write time.	
Standard #:	Standard:	
1.MD.3	Tell and write time in hours and half-hours using analog and digital clocks.	
Cluster: Repre	esent and Interpret Data	
Standard #:		
1.MD.4	Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	
Domain: Stan	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 repeated reasoning.	
Unit Essential		
	use numbers to help with daily     • Numbers can be used daily.	
Unit Objective • Studer	e: nts will be able to participate daily in classroom routines that involve math.	

Evidence of Learning		
Possible Formative Assessments:		
<ul> <li>SMART Response questions used throughout the unit.</li> </ul>		
Workbook pages		
Possible Summative Assessments:		
Unit Checklist		
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
Choice boards - projects		
• Skit		
Suggested Lesson Plan		
Topics		
Topic #1: Calendar Routines		
Topic #2: Days of the Week		
Topic #3: Number of Days of School		
Topic #4: Weather		
Topic #5: Time		
Topic #6: Number of the Day		
Topic #7: Beat the Clock		
Materials and Curriculum Resources:		
<ul> <li><u>https://njctl.org/courses/math/1st-grade/calendar-math/</u></li> </ul>		
Calendar, clocks, counting cards		
Lesson Components		
21st Century Skills		
<ul> <li>Financial, Economic, Business, and Entrepreneurial Literacy</li> </ul>		
21st Century Themes		
Critical Thinking and Problem Solving		
Communication and Collaboration		
Life and Career Skills		
CRP3. Attend to personal health and financial well-being.		
CRP4. Communicate clearly and effectively and with reason.		
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.		

Belvidere Clusterwide			
Mathematics Curriculum 1st Grade			
			Unit Plan #: 1 Numbers to 120
Title: Number	s to 120		
Grade Level:	Grade Level: 1 Approximate Length of Time: 3 Weeks		
Unit Summar	y:		
Students will study the structure of the whole number system. They will write, read (numeral and words), order and compare numbers to 120. They will identify patterns in skip counting, distinguish between odd			
and even, and	become fluent with a number line and	number grid.	
		g Targets	
		Iditional Clusters	
Domain: Num	ber and Operations in Base Ten (NBT	-)	
Clusters:			
	ounting sequence.		
- Understand			
	lue understanding and properties of o	perations to add and subtract.	
Standard #s:	Standards:		
1.NBT.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.3	•	ased on meanings of the tens and ones digits,	
	recording the results of comparisons with the symbols >, =, and <.		
1.NBT.5		find 10 more or 10 less than the number, without	
		ning used. (Not assessed until unit 5)	
Domain: Star	dards for Math Practice		
Standard#:	Standard:		
MP1	Making sense of problems and pers	evere in solving them.	
MP2	Reason abstractly and quantitatively		
MP3	Construct viable arguments and crit		
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 re	peated reasoning.	
Unit Essentia	I Questions:	Unit Enduring Understandings:	
What pattern	ns exist in number names that can	<ul> <li>Numbers can be used to count, label, order,</li> </ul>	
be used to understand and represent larger numbers?		identify, measure and describe things and experiences.	
<ul> <li>How can words and symbols be used to</li> </ul>		• Quantities can be compared using number words	
illustrate the comparison of numbers?		or numerals.	
What is the meaning of less than, greater than			
and equal to?			
How are ordinal numbers used in everyday? Unit Objectives:			
• Students w	es: ill be able to compare two given numb ill be able to count to 120.	ers between 0-100.	
<ul> <li>Students will be able to mentally find 10 more or less than a given number.</li> </ul>			
Evidence of Learning			

Possible Formative Assessments:		
<ul> <li>SMART Response Questions used throughout unit</li> </ul>		
• Quizzes		
Hold up number cards that are 10 more or 10 less than r	number shown	
Observation		
Homework		
Summative Assessment:		
Unit Test		
Chapter tests		
complete a 100 grid		
Drawings		
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
Choice boards - projects		
<ul> <li>Skit</li> </ul>		
Demonstration		
Journaling		
Conferencing		
Suggested Lesso	n Dian	
Topics	Timeframe	
Topic #1: Reading & Writing Numbers	5 days	
What is a Number?	o dayo	
Number Writing 0-5		
Lab: Five Frame Game		
Number Writing 6-10		
<ul> <li>Lab: Ten Frame Memory</li> </ul>		
Tricky Teens		
Tally Marks		
Lab: Craft Stick Tallies		
Topic #2: Exploring the Number Line & Number Grid	2 days	
Number Line		
Number Grid		
Topic #3: More Than, Less Than		
One More One Less 3 days		
Comparing Numbers		
<ul> <li>Using Symbols to Compare Numbers</li> </ul>		
Lab: Comparison Symbol Cards		
Topic #4: Skip Counting	3 days	
Skip Counting By 2		
Skip Counting By 10		
Skip Counting By 5		
Lab: Skip Counting Puzzles		
Topic #6: Review/Unit Assessment     2 days		
Materials and Curriculum Resources:		
<ul> <li><u>https://njctl.org/courses/math/1st-grade/numbers-to-120/</u></li> </ul>		
• Counting cubes, manipulatives, counting/number cards		
Extra Resources		
<ul> <li>http://www.raftbayarea.org/ideas/Stack%20em%20High.pdf</li> </ul>		

- http://www.raftbayarea.org/ideas/Roll%20Over%20and%20Over.pdf
- approved classroom textbooks

#### Lesson Components

# 21<sup>st</sup> Century Skills

- Financial, Economic, Business, and Entrepreneurial Literacy
- 21<sup>st</sup> Century Themes
- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

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

CRP4. Communicate clearly and effectively and with reason.

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

CRP9. Model integrity, ethical leadership and effective management.

	Polyidara Cluster Wide		
Belvidere Cluster Wide			
Mathematics Curriculum 1st Grade			
	Unit Plan # 2 Addition to 20		
Title: Addition			
Grade Level: 1			
Unit Summary			
-	ain an understanding of addition facts to 20. They will use counters, connecting cubes, the		
	d the number grid to help them initially. They will also discover patterns in addition such as		
	plus 10, and doubles. They will then use all of this knowledge to find a missing addend.		
	Learning Targets		
	jor Clusters; 💶 Supporting Clusters; 🔍 Additional Clusters		
Domain: Operation	ations and Algebraic Thinking (OA)		
Clusters:			
•	d solve problems involving addition and subtraction		
-	nd apply properties of operations and the relationship between addition and subtraction		
Standard #s	Standards		
1.0A.1	Use addition and subtraction within 20 to solve word problems involving situations of		
	adding to, taking from, putting together, taking apart, and comparing, with unknowns in		
	all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.		
1.OA.2	Solve word problems that call for addition of three whole numbers whose sum is less		
	than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the		
	unknown number to represent the problem.		
1.OA.3	Apply properties of operations as strategies to add and subtract. <i>Examples: If 8 + 3 = 11</i>		
	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 $2 + 6 + 4 = 2 + 10 = 12$ .		
	(Associative property of addition.) $(Associative property of addition.)$		
1.OA.5	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).		
1.OA.6			
	Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ );		
	decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ ); using the		
	relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$ , one knows $12 - 8 = 4$ ); and creating equivalent but again or known sums (e.g., adding $6 + 7$ by		
	12 - 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13).		
1.OA.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.		
1.OA.8	Determine the unknown whole number in an addition or subtraction equation relating		
	three whole numbers. For example, determine the unknown number that makes the		
equation true in each of the equations $8 + ? = 11$ , $5 = -3$ , $6 + 6 =$			
Domain: Standards 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			
Unit Essential Questions:		Unit Enduring Understandings:	
addition prot		<ul> <li>We make generalizations and use symbols to represent mathematical ideas.</li> </ul>	
<ul> <li>Why can you add addends in any order?</li> <li>Why is counting on helpful when solving an addition sentence?</li> <li>What does the equation sign mean?</li> </ul>		<ul> <li>Proficiency with basic facts aids estimation and computation of larger and smaller numbers.</li> <li>We must apply and adapt a variety of strategies to solve problems.</li> </ul>	
	solve a missing addend problem?	<ul> <li>Numbers are related and manipulated for real world problem solving</li> </ul>	
<ul> <li>Unit Objective</li> <li>Students with</li> </ul>		ts, drawings, a number line, and a number grid.	
	ill explore the commutative and associ		
	ill relate addition to combining two grou		
Students w	ill understand that the equal sign is use		
		of Learning	
Possible Forr	native Assessments:		
<ul> <li>SMART Re</li> </ul>	sponse Questions used throughout un	nit	
<ul> <li>Quizzes</li> </ul>			
	ith Manipulatives		
Homework			
<ul> <li>Classwork</li> </ul>			
	k with whiteboard		
Observation			
	imative Assessment:		
<ul> <li>Unit Test</li> </ul>			
Possible Ben	chmark Assessments:		
Go Math E	Benchmark		
Unit Asses	ssment		
Possible Alte	rnative Assessments:		
	ards - projects		
<ul> <li>Skit</li> </ul>			
<ul> <li>Demonstra</li> </ul>	ation		
<ul> <li>Journaling</li> </ul>			
<ul> <li>Conference</li> </ul>			
	•	Loopon Plan	
		Lesson Plan Timeframe	
Tania #1. Dant			
Topic #1: Parts		1 Day	
Topic #2: Adding with Manipulatives     1 Day       Topic #2: Addition Contanged     1 Day			
Topic #3: Addition Sentences 1 Day			
Topic #4: Word Problems 1 Day			
	ition on the Number Line	2 Days	
& Number Grid			
Lab – RAFT – Pick a Stick			
Topic #6: Addition Patterns6 Days			
-Adding Zero			
-Counting On	-Counting On 1,2,3		

-Adding Ten		
-Patterns when Adding 10		
-Doubles		
-Doubles Plus One		
Topic #7: Turn Around Facts	1 Day	
Lab – Turn Around Fact Game		
Topic #8: Making 10	2 Days	
-with Frames		
-with Hands		
Topic #9: Missing Addends	2 Days	
-Missing Addend		
-Missing Addends with a Number Grid		
Lab – RAFT – Zero Wins		
Topic #10: 3 Addends	1 Day	
Topic #11: Review/Unit Assessment	2 Days	
Materials and Curriculum Resources:		
• https://njctl.org/courses/math/1st-grade/addi	<u>tion-to-20/</u>	
http://www.raftbayarea.org/ideas/Pick%20a%20Stick.pdf		
<ul> <li>http://www.raftbayarea.org/ideas/Zero%20Wins.pdf</li> </ul>		
Approved Classroom Textbooks		
Lesson Components		
21st Century Skills		
• Financial, Economic, Business, and Entreprene	eurial Literacy	
21st Century Themes		
Critical Thinking and Problem Solving		
<ul> <li>Communication and Collaboration</li> </ul>		
<ul> <li>Life and Career Skills</li> </ul>		
CRP3. Attend to personal health and financial well-being.		
CRP4. Communicate clearly and effectively and with reason.		
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.		

	Belvidere Cluster-wide	
Mathematics Curriculum		
1st Grade Unit Plan #: 3 Subtraction to 20		
Title: Subtraction		
Grade Level: 1		
the number line such as subtrac	ain an understanding of subtraction facts to 20. They will use counters, connecting cubes, and the number grid to help them initially. They will also discover patterns in subtraction ct all, zero, and ten. The will also learn strategies such as counting back, get to the ten, and hey will then use all of this knowledge to find missing numbers.	
	Learning Targets	
	or Clusters; Supporting Clusters; Additional Clusters	
•	ations and Algebraic Thinking (OA)	
Clusters:	d solve problems involving addition and subtraction	
•	nd apply properties of operations and the relationship between addition and subtraction	
- Add and subtr		
	lition and subtraction equations	
Standard #s:	Standards:	
1.0A.1	Use addition and subtraction within 20 to solve word problems involving situations of	
<u>1.0A.1</u>	adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	
1.OA.3	Apply properties of operations as strategies to add and subtract. <i>Examples:</i> 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 $2 + 6 + 4 = 2 + 10 = 12$ . (Associative property of addition.)	
1.0A.4	Understand subtraction as an unknown-addend problem. For example, subtract $10 - 8$ by finding the number that makes 10 when added to 8. Add and subtract within 20.	
1.OA.5	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).	
1.OA.6	Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ ); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$ , one knows $12 - 8 = 4$ ); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$ ).	
1.OA.8	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$ , $5 = -3$ , $6 + 6 = -2$ .	
Domain: Standards 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	P4 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 repeated reasoning.		
		Unit Enduring Understandings:	
<ul> <li>How do you solve a subtraction sentence using objects and drawings?</li> <li>Why is counting back helpful when solving a subtraction sentence?</li> <li>How do operations relate to each other?</li> <li>How do I find differences by using related addition facts?</li> </ul>		<ul> <li>We make generalizations and use symbols to represent mathematical ideas.</li> <li>Proficiency with basic facts aids estimation and computation of larger and smaller numbers.</li> <li>We must apply and adapt a variety of strategies to solve problems.</li> <li>Numbers are related and manipulated for real world problem solving</li> </ul>	
<ul> <li>Students w</li> </ul>	vill solve subtraction problems using ot	bjects, drawings, a number line, and a number grid. on sentences and decompose a number leading to 10. missing numbers.	
		of Learning	
<ul> <li>Possible Formative Assessments:</li> <li>SMART Response Questions used throughout unit</li> <li>Quizzes</li> <li>Homework</li> <li>Classwork</li> <li>Observation</li> <li>Exit ticket</li> </ul>			
Summative A	ssessment:		
<ul><li>Unit Test</li><li>Performant</li></ul>	<ul> <li>Unit Test</li> <li>Performance task-Use a deck of cards to create two addends equations and solve</li> </ul>		
Possible Ber	chmark Assessments:		
<ul><li>Go Math I</li><li>Unit Asse</li></ul>	3enchmark ssment		
Possible Alte	ernative Assessments:		
<ul> <li>Choice boards - projects</li> <li>Skit</li> <li>Demonstration</li> <li>Journaling</li> <li>Conferencing</li> </ul>			
	Suggested Lesson Plan		
Taula #4: 1:: (	Topics	Timeframe	
	es	4 days	
Topic # 2: Too -Subtraction c	ols to help us subtract on a Number Line on a Number Grid	2 Days	
	traction patterns Zero NI	5 days	

-Subtracting Ten	
-Patterns when Subtracting 10	
Lab – RAFT – Zero Wins	
Topic #3: Fact Families	3 days
-Fact Families	
Lab –Fact Family Domino Grab	
-Fact Triangles	
Lab – RAFT – Math Action Goes Both Ways	
Topic #4: Missing Number	2 days
Topic #5: Get to the 10	2 days
Topic #6: Review/Unit Assessment	2 days
Materials and Curriculum Resources:	
	• • /

- https://njctl.org/courses/math/1st-grade/subtraction-to-20/
- http://www.raftbayarea.org/ideas/Math%20Action%20Goes%20Both%20Ways.pdf
- http://www.raftbayarea.org/ideas/Zero%20Wins.pdf

Approved Classroom Textbooks

### Lesson Components

## 21st Century Skills

• Financial, Economic, Business, and Entrepreneurial Literacy

# 21st Century Themes

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

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

CRP4. Communicate clearly and effectively and with reason.

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

CRP9. Model integrity, ethical leadership and effective management.

Debuidere Olystemuide			
Belvidere Clusterwide			
Mathematics Curriculum			
1st Grade Unit Plan #: 4 Place Value			
Title: Place Va		nerovimeta Length of Time, 2 Weeks	
Grade Level: 1		oproximate Length of Time: 3 Weeks	
		tens place value. They will use this information to bls.	
	Learning Ta	rgets	
	jor Clusters; 💶 Supporting Clusters; 🜼 A	dditional Clusters	
Domain: Numb	bers and Operations in Base Ten		
Clusters:			
- Understand p			
•	ue understanding and properties of operat	ions to add and subtract.	
Standard #s:	Standards:	digit number represent amounts of tang and	
1.NBT.2	ones. Understand that the following as spec	digit number represent amounts of tens and ial cases:	
	- 10 can be thought of as a bundle of	ten ones — called a "ten."	
	- The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.		
	- The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).		
1.NBT.3	Compare two two-digit numbers based recording the results of comparisons wi	on meanings of the tens and ones digits, th the symbols >, =, and <.	
Domain: Stan	dards for Math Practice		
Standard #		Standard	
MP1	Making sense of problems and persever	e 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 repeated reasoning.		
Unit Essential Questions: Unit Enduring Understanding:			
	<ul> <li>How does the position of a digit in a number affect its</li> <li>In two digit numbers each digit represents a</li> </ul>		
value?			
How are place value patterns repeated in numbers?			
Unit Objectives:			
Students will distinguish between the tens and ones place value.			
Students will compare two digit numbers according to their value.			
Evidence of Learning Possible Formative Assessments:			
SMART Response Questions used throughout unit			

- Quizzes
- Modeling with ten blocks

### Summative Assessment:

Unit Test

# Possible Benchmark Assessments:

- Go Math Benchmark
- Unit Assessment

# **Possible Alternative Assessments:**

- Choice boards projects
- Skit
- Demonstration
- Journaling
- Conferencing

# Suggested Lesson Plan

Topics	Timeframe
Topic #1: Digits	2 days
Lab – RAFT – Abacus Primer	
Topic #2: Base Ten Blocks	1 day
Topic #3: Ones & Tens	7 days
Lab – RAFT – Give & Take	
Topic #4: Comparing	3 days
Lab – RAFT – Place Your Number Value	
Review & Unit Test	2 days

# Materials and Curriculum Resources:

- <u>https://njctl.org/courses/math/1st-grade/place-value/</u>
- http://www.raftbayarea.org/ideas/Abacus%20Primer.pdf
- http://www.raftbayarea.org/ideas/Give%20and%20Take.pdf
- http://www.raftbayarea.org/ideas/Place%20Your%20Number%20Value.pdf
- Approved Classroom Textbooks

## Lesson Components

# 21st Century Skills

• Financial, Economic, Business, and Entrepreneurial Literacy

#### **21st Century Themes**

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

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

CRP4. Communicate clearly and effectively and with reason.

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

CRP9. Model integrity, ethical leadership and effective management.

	Balvidara (	Sluctor Wide	
Belvidere Cluster Wide Mathematics Curriculum			
	1st Grade Unit Plan: #5 - 2 Digit Addition		
Title: Two Dig			
Grade Level:		Approximate Length of Time: 3 Weeks	
Unit Summary			
-	ain an understanding of two digit addit	ion.	
		g Targets	
PARCC Ma	jor Clusters; Supporting Clusters;	Additional Clusters	
Domain: Num	ber and Operations in Base Ten		
Cluster:			
	lue understanding and properties of op	perations to add and subtract.	
Standard #s:	Standards:		
1.NBT.4		two-digit number and a one-digit number, and adding of 10, using concrete models or drawings and	
		operties of operations, and/or the relationship	
	between addition and subtraction; relate the strategy to a written method and explain the		
		adding two-digit numbers, one adds tens and tens,	
1.NBT.5	ones and ones; and sometimes it is	find 10 more or 10 less than the number, without	
1.101.0	having to count; explain the reason		
Domain: Stan	dards for Math Practice	<u> </u>	
Standard #		Standard	
MP1	Making sense of problems and persevere in solving them.		
MP2	Reason abstractly and quantitatively.		
MP3	Construct viable arguments and criti	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 re	peated reasoning.	
Unit Essentia	Questions:	Unit Enduring Understandings:	
•	ations affect numbers?	<ul> <li>How to add multiples of ten within 100.</li> </ul>	
<ul> <li>What makes effective and</li> </ul>	a computational strategy both	How to add two digit numbers with and without	
	se what I know about tens and ones	regrouping.	
to add two-digit numbers?			
Unit Objective			
Students will add multiples of ten mentally			
Students will add two digit numbers with and without regrouping.     Evidence of Learning			
Possible Form	native Assessments:		
<ul> <li>SMART Response Questions used throughout unit</li> </ul>			
• Quizzes			
Exit ticket     Observation			
<ul> <li>Observation</li> <li>Homework</li> </ul>			
- 101100011			

Classwork		
Possible Summative Assessment:		
Unit Test		
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
Choice boards - projects		
• Skit		
Demonstration		
• Journaling		
Conferencing		
Suggested Lesson Plan		
Topics	Timeframe	
Topic #1: Adding with tens	5 days	
Adding Multiples of Ten to Multiples of Ten w/ Blocks		
Adding Multiples of Ten and 2 Digit Numbers w/ Blocks		
Lab: Hidden Picture Partner		
<ul><li>Adding Ten in our Head</li><li>Patterns when Adding Ten</li></ul>		
<ul> <li>Adding Multiples of Ten in our Head</li> </ul>		
<ul> <li>Lab – RAFT – Apple Math</li> </ul>		
Topic #2: Two digit plus one digit without regrouping/	4 days	
Two Digit Plus One Digit Pt 1	ý	
Two Digit Plus One Digit Pt 2		
Two Digit Plus Two Digit Pt 1		
Two Digit Plus Two Digit Pt 2		
Lab – RAFT Carpet Square Math		
Topic #3: Two digit plus one digit with regrouping	4 days	
<ul> <li>Introduction to Regrouping</li> <li>Regrouping Without Blocks</li> </ul>		
<ul> <li>Lab: Two Digit Addition Roll</li> </ul>		
<ul> <li>More Regrouping</li> </ul>		
Lab: Addition with Regrouping Book		
Lab: Two Digit Addition Domino		
Topic #4: Review/Assessment	2 days	
Materials and Curriculum Resources:		
• https://njctl.org/courses/math/1st-grade/2-digit-addition/		
<u>http://www.raftbayarea.org/ideas/Apple%20Match.pdf</u>		
• http://www.raftbayarea.org/ideas/Carpet%20Square%20Math.pdf		
Approved Classroom Textbook		
Lesson Components		
21st Century Skills		
• Financial, Economic, Business, and Entrepreneurial Literacy		
21st Century Themes		
Critical Thinking and Problem Solving		
Communication and Collaboration		
Life and Career Skills		
CRP3. Attend to personal health and financial well-being.		
CRP4. Communicate clearly and effectively and with reason.		

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.

Belvidere Cluster Wide			
Mathematics Curriculum			
	1st Grade		
Unit Plan #: 6 Two-digit Subtraction			
Title: Two Di	git Subtraction		
Grade Level	•	Approximate Length of Time: 3 Weeks	
Unit Summa	rv:	pp the generation of the second	
	-	0 and multiples of 10. They will use the base ten	
		heir understandings. The students will be introduced to	
	and 2 digit numbers from a 2 digit num		
		g Targets	
	ajor Clusters; 💶 Supporting Clusters;	Additional Clusters	
Domain: Nu	nber and Operations in Base Ten		
Cluster:			
· · · · · · · · · · · · · · · · · · ·	alue understanding and properties of o	perations to add and subtract.	
Standard #s	Standards:		
1.NBT.5		r find 10 more or 10 less than the number, without	
	having to count; explain the reasor	ning used.	
1.NBT.6	Subtract multiples of 10 in the range	ge 10-90 from multiples of 10 in the range 10-90	
		g concrete models or drawings and strategies based	
		tions, and/or the relationship between addition and	
		a written method and explain the reasoning used.	
	ndards for Math Practice		
Standard #		Standard	
MP1	Making sense of problems and pers		
MP2	Reason abstractly and quantitatively		
MP3	Construct viable arguments and crit	ique 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 re	peated reasoning.	
Unit Essenti	al Questions:	Unit Enduring Understanding:	
• How can I u	use what I know about tens and ones	When subtracting 10, the tens place goes down	
	two-digit numbers?	one and the ones place stays the same.	
	rn is seen when subtracting 10?	• When subtracting 2 digit numbers, you subtract the	
	How can using number relationships help me ones first and then the tens.		
solve subtraction problems for two digit numbers?			
Unit Objectives:			
Students will subtract ten from multiples of 10.			
Students will mentally subtract 10 from two digit numbers.			
Students will subtract multiples of 10 from multiples of 10.			
Students will subtract 1 and 2 digit numbers from 2 digit numbers without regrouping.			
Evidence of Learning			
Possible Formative Assessments:			

- Quizzes
- Homework
- Observation
- Classwork

### Summative Assessment:

- Unit Test
- Performance Assessment modeling with base ten blocks

### **Possible Benchmark Assessments:**

- Go Math Benchmark
- Unit Assessment

# Possible Alternative Assessments:

- Choice boards projects
- Skit
- Demonstration
- Journaling
- Conferencing

#### Suggested Lesson Plan

Topics	Timeframe	
Topic #1: Subtracting Ten	5 days	
Topic #2: Subtracting Multiples of Ten	3 days	
Quiz #1	1 day	
Lab: Subtracting Ten Dice Roll		
Topic #3: Two Digit Minus One Digit	1 day	
Topic #4: Two Digit Minus Two Digit	3 days	
Quiz #2	1 day	
Lab: Subtraction Spin	- -	
Topic #5: Review/Assessment	2 days	
Lab: Subtraction Around the Room		

## Materials and Curriculum Resources:

- https://njctl.org/courses/math/1st-grade/2nd-digit-subtraction/
- Approved classroom textbooks

### Lesson Components

#### 21st Century Skills

• Financial, Economic, Business, and Entrepreneurial Literacy

#### **21st Century Themes**

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

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

CRP4. Communicate clearly and effectively and with reason.

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

CRP9. Model integrity, ethical leadership and effective management.

	Belvidere Cluster Wide		
	Mathematics Curriculum		
	1st Grade		
	Unit P	lan #: 7	
	Title: Time		
Grade Level:	-	Approximate Length of Time: 2 Weeks	
Unit Summary			
-	ain an understanding of time to the hou both digital and analog format.	r and half-hour. They will demonstrate fluency in	
		g Targets	
	PARCC 📕 Major Clusters; 🗖 Suppo	rting Clusters; 🜻 Additional Clusters	
	surement and Data		
Cluster: - Tell and write	time.		
Standard #:	Standard:		
1.MD.3	Tell and write time in hours and half-h	ours using analog and digital clocks.	
Domain: Stan	dards for Math Practice		
Standard #		Standard	
MP1	Making sense of problems and perso	evere 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			
MP8	Look for and express regularity in re	peated reasoning.	
Unit Essential		Unit Enduring Understandings:	
<ul> <li>What tools a</li> </ul>	re used to measure time?	<ul> <li>Telling time is an essential life skill</li> </ul>	
	g time important?	• Time can be written and read in analog and digital	
	use clocks to tell time?	format	
	difference between analog and digital	<ul> <li>An hour is more time than a minute</li> </ul>	
time?	<u></u>		
<ul> <li>Unit Objective</li> <li>Students with</li> </ul>	es: ill read and write time to the hour and h	alf hour on an analog clock	
	ill read and write time to the hour and h	-	
	Il distinguish between the minute hand	÷	
Evidence of Learning			
Possible Formative Assessments:			
SMART Response Questions used throughout unit			
<ul><li>Quizzes</li><li>Observation</li></ul>			
<ul> <li>Observation</li> <li>Matching analog and digital clocks</li> </ul>			
• Time Cards			
Possible Summative Assessment:			
Unit Test			
Possible Benchmark Assessments:			
Go Math B	Go Math Benchmark		
22			

Unit Assessment Possible Alternative Assessments:		
Choice boards - projects		
• Skit		
Demonstration		
<ul><li>Journaling</li><li>Conferencing</li></ul>		
	L see an Dian	
Topics	I Lesson Plan Timeframe	
Topic #1: Numbers & Hands of a Clock	3 days	
Lab – Paper Clocks Activity	5 days	
Topic #2: Time to the Hour (Analog and Digital)	2 days	
Lab - Time to the Hour Memory		
Topic #3: Time to the Half Hour (Analog & Digital)	3 days	
Topic #4: Combination of Time Skills Lab – I Have Who Has Game	1 days	
Topic #5: Review/Assessment	1 day	
Materials and Curriculum Resources:		
https://njctl.org/courses/math/1st-grade/time/		
Approved Classroom Textbooks		
Lesson C	Components	
21st Century Skills		
<ul> <li>Financial, Economic, Business, and Entreprenet</li> </ul>	urial Literacy	
21st Century Themes		
<ul> <li>Critical Thinking and Problem Solving</li> </ul>		
Communication and Collaboration		
<ul> <li>Life and Career Skills</li> </ul>		
CRP3. Attend to personal health and financial we	ell-being.	
CRP4. Communicate clearly and effectively and v	with reason.	
CRP8. Utilize critical thinking to make sense of p	roblems and persevere in solving them.	
CRP9. Model integrity, ethical leadership and effe		
CRP10. Plan education and career paths aligned	-	

Belvidere Cluster-Wide			
Mathematics Curriculum			
1st Grade			
	Unit Plan # 8 Length		
Title: Length		-	
Grade Level:	1	Approximate Time: 2 Weeks	
Unit Summary	/:	·	
		ard and standard length measurement. This unit will o and three objects and order objects based on their	
	Learnin	g Targets	
P	ARCC 📕 Major Clusters; 🗖 Suppo		
Domain: Meas	surement and Data		
-	ths indirectly and by iterating length u	nits	
Standard #s:	Standards:		
1.MD.1	Order three objects by length; compare the lengths of two objects indirectly by using a third object.		
1.MD.2	Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. <i>Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.</i>		
	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 criti	que 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 re		
		Unit Enduring Understandings:	
Unit Essential	Questions:	<ul> <li>Objects have distinct attributes that can be measured.</li> </ul>	
<ul> <li>What are the tools of measurement and how are they used?</li> <li>Why do we measure?</li> <li>Why do we have different tools to measure?</li> </ul>		<ul> <li>Measurement is a way to describe and compare objects.</li> </ul>	
		<ul> <li>A specific process is used to measure objects.</li> <li>Measurement helps us understand and describe our world.</li> </ul>	
<ul><li>by placing the students with the student</li></ul>	II use successfully use blocks, their bo hem end to end. II compare the length of two and three II order items based on their length.	odies and other non-standard objects to measure items objects. of Learning	

# Evidence of Learning

Possible Formative Assessments:		
SMART Response Questions used throughout u	init	
• Quizzes		
Performance Tasks: Measure and record length	of objects by whole number of length units, order	
objects by length, compare lengths of objects.		
Summative Assessment:		
Unit Test		
Performance Task - measure a variety of objects	8	
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
<ul><li>Choice boards - projects</li><li>Skit</li></ul>		
Demonstration		
<ul> <li>Journaling</li> </ul>		
Conferencing		
č	d Lesson Plan	
Topics	Timeframe	
Topic #1: Comparing Objects	3 days	
Comparing Two Objects		
Comparing Three Objects		
Ordering Three Objects		
Topic #2: Measuring with Blocks	2 days	
Using Blocks to Measure		
Lab: Comparison Game		
<ul> <li>Using Blocks to Measure Pt. 2</li> </ul>		
Topic #3: Measuring with Nonstandard Objects	1 day	
<ul> <li>Classroom Items to Measure</li> </ul>		
<ul> <li>Lab: RAFT – Measure Up</li> </ul>		
Topic #4: Using a "Ruler" to Measure	2 days	
Topic #5: Measuring with Our Body		
Using Our Body to Measure		
Measuring in Feet		
Lab: Foot Measuring		
Tania #5: Daviau/Accessment	0 deve	
Topic #5: Review/Assessment Materials and Curriculum Resources:	2 days	
<ul> <li><u>https://njctl.org/courses/math/1st-grade/length/</u></li> <li><u>http://www.raftbayaraa.org/idaaa/Maaaura%</u> 2011</li> </ul>	n ndf	
<u>http://www.raftbayarea.org/ideas/Measure%20U</u> <u>Approved Classroom Textbooks</u>	<u>p.pui</u>	
Approved Classroom Textbooks     Lesson Components		
	oomponents	
21st Century Skills		
<ul> <li>Financial, Economic, Business, and Entreprene</li> </ul>	eurial Literacy	
21st Century Themes		
<ul> <li>Critical Thinking and Problem Solving</li> </ul>		
Communication and Collaboration		
Life and Career Skills		
CRP3. Attend to personal health and financial w	-	
CRP4. Communicate clearly and effectively and	with reason.	

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.

Belvidere Cluster Wide Mathematics Curriculum		
1st Grade		
Titles Oceanost	Unit Plan #: 9 Geometry	
Title: Geometry	-	
Grade Level: 1		
Unit Summary		
	ain an understanding of two-dimensional and three-dimensional shapes and the	
	etween them. Students will observe, describe, compare, classify, represent, and build 2-D &	
	ney will learn to use geometric language to describe and identify important features of lition, the students will divide shapes into equal parts and label the parts as $\frac{1}{2}$ and $\frac{1}{4}$ .	
snapes. In auc		
D	Learning Targets ARCC  Major Clusters;  Supporting Clusters;  Additional Clusters	
Domain: Geon		
Cluster:		
	shapes and their attributes.	
Standard #s:	Standards:	
1.G.1	Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.	
<mark>1.G.2</mark>	Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.	
<mark>1.G.3</mark>	.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words <i>halves</i> , <i>fourths</i> , and <i>quarters</i> , and use the phrases <i>half of</i> , <i>fourth of</i> , and <i>quarter of</i> . Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.	
Domain: Standards 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 repeated reasoning. **Unit Essential Questions:** Unit Enduring Understandings: • How do we show an equal part of something? • Objects can be described and compared using • How are numbers used to show fractions? their geometric attributes. • How can I identify and describe solid figures by • Parts of a whole can be represented as fractions. describing the faces, edges, and sides? • What are the attributes of shapes? Unit Objectives: • Students will describe 2D & 3D shapes by their attributes.

• Students will compose 2D & 3D shapes.

• Students will divide shapes into equal shares.

Evidence of Learning		
Possible Formative Assessments:		
<ul> <li>SMART Response Questions used throughout unit</li> </ul>		
• Quizzes		
Homework		
Classwork		
<ul> <li>Identify shapes within the classroom</li> </ul>		
Observation		
Exit Ticket		
Possible Summative Assessment:		
Unit Test		
Possible Benchmark Assessments:		
Go Math Benchmark		
Unit Assessment		
Possible Alternative Assessments:		
Choice boards - projects		
• Skit		
Demonstration		
Journaling		
Conferencing		
	Lesson Plan	
Topics	Timeframe	
Topic #1: 2D Shapes	0 dava	
- 2D Shapes	2 days	
Lab – RAFT – I Can Find a Shape Like That Topic #2: Attributes		
- Sides and Corners		
- Open & Closed	4 days	
- Sorting by Attributes		
Lab – RAFT – Shape Fun		
Topic #3: Composite Shapes	1 Day	
Topic #4: Orientation	1 Day	
Topic #5: 3D Shapes		
- Faces and Corners	4 days	
- Rectangular Prisms & Cubes	- days	
- Cones, Cylinders, & Spheres		
Topic #6: Fractions		
- Introductions	5 days	
- Halves	,	
- Fourths/Quarters	2 dava	
Topic #5: Review/Assessment 2 days  Materials and Curriculum Resources:		
<ul> <li><u>https://njctl.org/courses/math/1st-grade/geometry/</u></li> <li><u>bttp://www.raftbayarea.org/ideas/l%20can%20Einc</u></li> </ul>	1%20a%20Shape%20like%20That.pdf	
<ul> <li><u>http://www.raftbayarea.org/ideas/1%20can%20Find%20a%20Shape%20like%20That.pdf</u></li> <li><u>http://www.raftbayarea.org/ideas/Shape%20Fun.pdf</u></li> </ul>		
<ul> <li>Approved Cluster Textbooks</li> </ul>	<u>u.</u>	
	omponents	
	• •	

# 21st Century Skills

• Financial, Economic, Business, and Entrepreneurial Literacy

# 21st Century Themes

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills
- CRP3. Attend to personal health and financial well-being.

CRP4. Communicate clearly and effectively and with reason.

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

CRP9. Model integrity, ethical leadership and effective management.

Dahidana Okustan Wida			
	Belvidere Cluster Wide		
	Mathematics Curriculum		
	1st Grade Unit Plan #: 10 Data		
	Unit Plan	#: 10 Data	
Title: Data			
Grade Level:		Approximate Length of Time: 2 Weeks	
Unit Summary			
		cture graphs, and Venn diagrams. They will pose	
on the graphs		a. Students will also compare information represented	
	-	g Targets	
P	ARCC Major Clusters; Suppo		
	surement and Data	······································	
Cluster:			
- Represent an	id interpret data		
Standard #:	Standard:		
	Organize, represent, and interpret	data with up to three categories; ask and answer	
1.MD.4		f data points, how many in each category, and how	
	many more or less are in one categories	jory than in another.	
Domain: Stan	dards for Math Practice		
Standard #		Standard	
MP1	Making sense of problems and perse	evere 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 re	peated reasoning.	
Unit Essential	Questions:	Unit Enduring Understandings:	
<ul> <li>How does</li> </ul>	a graph give information without	Graphs help us understand information	
many word	ls?	Graphs convey data in a concise way	
	ve use graphs?		
	e use graphs?		
	<ul> <li>What are some ways to gather, record, and use data on a graph?</li> </ul>		
Unit Objective	· ·		
Students will draw and interpret picture graphs.			
Students will draw and interpret bar graphs.			
Students will accurately read and write tally marks.     Students will use Venn diagrams to compare two or more chiests			
Students will use Venn diagrams to compare two or more objects.      Evidence of Learning			
Possible Formative Assessments:			
<ul> <li>SMART Response Questions used throughout unit</li> </ul>			
Quizzes			
Create tally charts, surveys, and tables as a class			
Possible Summative Assessment:			

• Unit Test

# Possible Benchmark Assessments:

- Go Math Benchmark
- Unit Assessment

# Possible Alternative Assessments:

- Choice boards projects
- Skit
- Demonstration
- Journaling
- Conferencing

Suggested Lesson Plan	
Topics	Timeframe
Topic #1: Tallies	2 days
- Tally Marks	
- Tally Chart	
Topic #2: Picture Graphs	1 day
Topic #3: Bar Graphs	2 days
- Bar Graph	
Lab – Candy Graph	
Topic #4: How Many More/How Many Less	1 day
Lab – RAFT – Dinosaur, Dinosaur	
Topic #5: Subtracting to Compare	1 day
Topic #6: Venn Diagrams	1 day
Topic #7: Review/Assessment	2 days
Materials and Curriculum Resources:	
• <u>https://njctl.org/courses/math/1st-grade/data/</u>	
http://www.raftbayarea.org/ideas/Dinosaur%20Dinosaur.pdf	
Approved Classroom Textbooks	
Lasson Components	

## Lesson Components

- 21st Century Skills
- Financial, Economic, Business, and Entrepreneurial Literacy

## **21st Century Themes**

- Critical Thinking and Problem Solving
- Communication and Collaboration
- Life and Career Skills

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

CRP4. Communicate clearly and effectively and with reason.

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

CRP9. Model integrity, ethical leadership and effective management.