Bay Head Elementary School	
Content Area: Mathematics Course Title: Mathematics	Grade Level: First Grade
Unit Plan 1 Operations and Algebraic Thinking	September - December Ongoing (74 days)
Unit Plan 2 Measurement and Data	January - February Ongoing (40 days)
Unit Plan 3 Number and Operations in Base 10	March - April Ongoing (35 days)
Unit Plan 4 Geometry	May - June Ongoing (31 days)
Maria Wills, Curriculum Coach Aligned to New Jersey Student Learning Standards	Board Approved: May 28, 2019 Re-Adopted October 22, 2019 Revised: March 22, 2023

STANDARDS FOR MATHEMATICAL PRACTICE	
The following standards for mathematical practice should be incorporated in all units.	
MP.1 Make sense of problems and persevere in solving them.	 Find meaning in problems Look for entry points Analyze, conjecture and plan solution pathways Monitor and adjust Verify answers Ask themselves the question: "Does this make sense?"
MP.2 Reason abstractly and quantitatively	 Make sense of quantities and their relationships in problems Learn to contextualize and decontextualize Create coherent representations of problems
MP.3 Construct viable arguments and critique the reasoning of others	 Understand and use information to construct arguments Make and explore the truth of conjectures Recognize and use counterexamples Justify conclusions and respond to arguments of others
MP.4 Model with mathematics	 Apply mathematics to problems in everyday life Make assumptions and approximations Identify quantities in a practical situation Interpret results in the context of the situation and reflect on whether results make sense
MP.5 Use appropriate tools strategically	 Consider the available tools when solving problems Are familiar with tools appropriate for

	their grade or course (pencil and paper, concrete models, ruler, protractor, calculator, spreadsheet, computer programs, digital content located on a website and other technological tools) Make sound decisions of which of these tools might be helpful
MP.6 Attend to precision	 Communicate precisely to others Use clear definitions, state the meaning of symbols and are careful specifying units of measure and labeling axes Calculate accurately and efficiently
MP.7 Look for and make use of structure	 Discern patterns and structures Can step back for an overview and shift perspective See complicated things as single objects or as being composed of several objects
MP.8 Look for and express regularity in repeated reasoning	 Notice if calculations are repeated and look for both general methods and shortcuts In solving problems, maintain oversight of the process while attending to detail Evaluate the reasonableness of their immediate results

Career Readiness, Life Literacies, and Key Skills	9.1 Personal Financial Literacy
9.1.2.CR.1	Recognize ways to volunteer in the classroom, school and community.
9.1.2.CR.2:	List ways to give back, including making donations, volunteering, and starting a business.
9.1.2. Fl.1	Differentiate the various forms of money and how they are used (e.g., coins, bills, checks, debit and credit cards).
9.1.2.FP.1	Explain how emotions influence whether a person spends or saves.
9.1.2.FP.2	Differentiate between financial wants and needs.
9.1.2.FP.3	Identify the factors that influence people to spend or save (e.g., commercials, family, culture, society)
9.1.2.PB.1	Determine various ways to save and places in the local community that help people save and accumulate money over time.
9.1.2.PB.2	Explain why an individual would choose to save money
9.1.2.RM.1	Describe how valuable items might be damaged or lost and ways to protect them.

Bay Head School MATHEMATICS CURRICULUM Unit Overview

Content Area: Mathematics Grade Level: First Grade

Domain (Unit Title): Operations and Algebraic Thinking

Cluster: 1.OA

Cluster Summary:

- Represent and solve problems involving addition and subtraction
- Understand and apply properties of operations and the relationship between addition and subtraction
- Add and subtract within 20
- Work with addition and subtraction equations

Primary Interdisciplinary Connections:

- **RL.K.4** Ask and answer questions about unknown words in a text.
- **RF K.4** Read emergent text with one-to-one correspondence to develop fluency and comprehension skills.
- **W.K.5** With guidance and support from adults, strengthen writing through response and self-reflection using questions and suggestions from peers (e.g., adding details).
- **SLK.1** Participate in collaborative conversations with diverse partners about *kindergarten topics and texts* with peers and adults in small and larger groups.

Computer Science and Design Thinking

- 8.1.2.DA.1: Collect and present data including climate change data, in various visual formats
- 8.1.2.DA.3:Identify and describe the patterns in data visualizations.
- 8.1.2.AP.1: Model daily processes by creating and following algorithms to complete tasks.
- 8.2.2.ED.2: Collaborate to solve a simple problem, or to illustrate how to build a product using the design process.
- 8.2.2.ED.3: Select and use appropriate tools and materials to build a product using the design process

Career Readiness, Life Literacies, and Key Skills

- 9.1.2.CR.1: Recognize ways to volunteer in the classroom, school and community.
- 9.1.2.PB.2: Explain why an individual would choose to save money.
- 9.4.2.Cl.2 Demonstrate originality and inventiveness in work (e.g. 1.3A.2CR1a).
- 9.4.2.CT.2: Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b.8.2.2.ED.3)
- 9.4.2.CT.3: Use a variety of types of thinking to solve problems (e.g.,inductive, deductive).
- 9.4.2.TL.5: Describe the difference between real and virtual experiences.

Learning Targets

Content Standards: Operations and Algebraic Thinking

Number	Performance Expectations	
1.OA.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.2 Examples: If $8+3=11$ is known, then $3+8=11$ is also known. (Commutative property of addition.) To add $2+6+4$, the second two numbers can be added to make a ten, so $2+6+4=2+10=12$. (Associative property of addition.)	
1.OA.4	Understand subtraction as an unknown-addend problem. For example, subtract 10 - 8 by finding the number that makes 10 when added to 8.	
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.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 $8 + ? = 11, 5 = \ 3, 6 + 6 = _$.	

Number	Standard for Introduction
2.OA.3	Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.

Unit Essential Questions

- What is addition and how is it used?
- What is subtraction and how is it used?
- How are addition and subtraction related?

Unit Enduring Understandings

Students will understand that...

- addition and subtraction are used to model real-world situations such as computing saving or spending, finding the number of days until a special day or determining an amount needed to earn a reward.
- fluency with addition and subtraction facts helps to quickly find answers to important questions..

Unit Objectives

Students will know...

- to use addition and subtraction to take numbers apart and put them back together in order to understand number relationships.
- to look for and make use of structure.
- which strategies to use to problem solve.

Unit Objectives

Students will be able to...

- represent and solve problems involving addition and subtraction.
- understand and apply properties of operations and the relationship between addition and subtraction.
- add and subtract within 20.
- work with addition and subtraction equations.

Evidence of Learning

Suggested Formative Assessments:

- Teacher Observation
- Performance Assessment
- Exit Slips/Slate Assessment
- Portfolios/Journals

- · Games
- · Anecdotal Records
- · Oral Assessment/Conferencing
- · Daily Classwork

Pre-Assessment

Suggested Summative Assessments:

- End-of-unit or -chapter tests.
- Final projects or portfolios.
- Achievement tests.

Benchmark Assessments

- AIMSWeb Testing (Fall, Winter, Spring)
- End of Unit or Chapter Test

Alternate Assessments

- Collaborative testing/learning
- Student portfolios
- Performance testing
- Conferencing
- Creations (hands on)

Performance Tasks/Use of Technology

Performance Tasks: Classwork

Projects

Use of Technology: Laptops or iPads

Smartboard STEAM Lab

Modifications (Special Education, Gifted and Talented, ELLs):

IEP modifications:

- Modified classroom and homework assignments
- Teacher tutoring
- Parent teacher communication
- Anchor charts and visual aids
- Flexible grouping
- Teacher student goal setting
- Technology integration
- Centers
- Response to intervention

504 Modification Plan:

- After school tutoring
- Constant parental contact
- Extra time for completion of work
- Possible partial credit

- Graphic organizers
- More/less time as appropriate
- Modified writing assignment lengths
- Timelines and checkpoints
- Small group instruction as needed
- Anchor activities
- Instructional technology as needed/required
- Appropriate scaffolding provided as necessary
- Anchor charts
- Guided notes
- Preferential seating

Gifted and Talented

- Multi-step and higher level math problems
- Enrich problems
- Extend activities
- Centers
- Student driven activities
- Student choice activities
- Peer tutoring

English Language Learners:

- Visuals
- Gesturing
- Miming and roleplay
- Use of manipulatives
- Simplified language/teacher talk/thinking aloud
- Providing a student buddy

Suggested activities for lesson plans:

What am I?	3D shape naming activity using the various properties of shapes
Sorting Shape Tree	"Tree Sort" to develop knowledge and understanding of shape properties. Used for both 2D and 3D shapes
Shape Hunt	Students explore indoor or outdoor surroundings to identify shapes.
Interactive Polygon Explorer	Web- based resource to explore the properties of polygons.

Bay Head School MATHEMATICS CURRICULUM Unit Overview

Content Area: Mathematics Grade Level: First Grade

Domain (Unit Title): Measurement and Data

Cluster: 1.MD

Cluster Summary:

Measure lengths indirectly and by iterating length units

Tell and write time

Represent and interpret data

Primary Interdisciplinary Connections:

• **RL.K.4** Ask and answer questions about unknown words in a text.

- **RF K.4** Read emergent text with one-to-one correspondence to develop fluency and comprehension skills.
- **W.K.5** With guidance and support from adults, strengthen writing through response and self-reflection using questions and suggestions from peers (e.g., adding details).
- **SLK.1** Participate in collaborative conversations with diverse partners about *kindergarten topics and texts* with peers and adults in small and larger groups.

Computer Science and Design Thinking

- 8.1.2.DA.1: Collect and present data including climate change data, in various visual formats
- 8.1.2.DA.3:Identify and describe the patterns in data visualizations.
- 8.1.2.AP.1: Model daily processes by creating and following algorithms to complete tasks.
- 8.2.2.ED.2: Collaborate to solve a simple problem, or to illustrate how to build a product using the design process.
- 8.2.2.ED.3: Select and use appropriate tools and materials to build a product using the design process

Career Readiness, Life Literacies, and Key Skills

- 9.1.2.CR.1: Recognize ways to volunteer in the classroom, school and community.
- 9.1.2.PB.2: Explain why an individual would choose to save money.
- 9.4.2.Cl.2 Demonstrate originality and inventiveness in work (e.g. 1.3A.2CR1a).
- 9.4.2.CT.2: Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b.8.2.2.ED.3)
- 9.4.2.CT.3: Use a variety of types of thinking to solve problems (e.g.,inductive, deductive).
- 9.4.2.TL.5: Describe the difference between real and virtual experiences.

Learning Targets

Content Standards: Measurement and Data

Number	Performance Expectations
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. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.
1.MD.3	Tell and write time in hours and half-hours using analog and digital clocks.
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.
Number	Standard for Introduction
2.MD.8	Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. Example: If you have 2 dimes and 3 pennies, how many cents do you have?

Unit Essential Questions

- How can you tell one object is bigger than another?
- Why do we measure objects and time?
- How are length and time different?
- How are they the same?
- What kinds of questions generate data?
- What questions can be answered by a data representation?

Unit Enduring Understandings

Students will understand that...

- time measurement is a means to organize and structure each day and our lives, and to describe tempo in music.
- measurement helps to understand and describe the world such as comparing heights of friends, describing how heavy something is, or how much something holds.
- people use graphs and charts to communicate information and learn

about a class or community, such as favorite ice cream flavors of a class.

Unit Objectives

Students will know...

- to use measurable attributes to describe countless objects.
- to use appropriate tools strategically.
- to measure accurately to organize and explain random information.

Unit Objectives

Students will be able to...

- measure lengths indirectly and by iterating length units.
- tell and write time.
- represent and interpret data.

Evidence of Learning

Suggested Formative Assessments:

- Teacher Observation
- Performance Assessment
- Exit Slips/Slate Assessment
- Portfolios/Journals
- Pre-Assessment

- · Games
- · Anecdotal Records
- · Oral Assessment/Conferencing
- · Daily Classwork

Suggested Summative Assessments:

- End-of-unit or -chapter tests.
- Final projects or portfolios.
- Achievement tests.

Benchmark Assessments

- AIMSWeb Testing (Fall, Winter, Spring)
- End of Unit or Chapter Test

Alternate Assessments

- Collaborative testing/learning
- Student portfolios
- Performance testing
- Conferencing
- Creations (hands on)

Performance Tasks/Use of Technology

Performance Tasks: Classwork

Projects

Use of Technology: Laptops or iPads

Smartboard STEAM Lab

Modifications (Special Education, Gifted and Talented, ELLs):

IEP modifications:

- Modified classroom and homework assignments
- Teacher tutoring
- Parent teacher communication
- Anchor charts and visual aids
- Flexible grouping
- Teacher student goal setting
- Technology integration
- Centers
- Response to intervention

504 Modification Plan:

- After school tutoring
- Constant parental contact
- Extra time for completion of work
- Possible partial credit
- Graphic organizers
- More/less time as appropriate
- Modified writing assignment lengths
- Timelines and checkpoints
- Small group instruction as needed
- Anchor activities
- Instructional technology as needed/required
- Appropriate scaffolding provided as necessary
- Anchor charts
- Guided notes
- Preferential seating

Gifted and Talented

- Multi-step and higher level math problems
- Enrich problems
- Extend activities

- Centers
- Student driven activities
- Student choice activities
- Peer tutoring

English Language Learners:

- Visuals
- Gesturing
- Miming and roleplay
- Use of manipulatives
- Simplified language/teacher talk/thinking aloud
- Providing a student buddy

Suggested activities for lesson plans:

What am I?	3D shape naming activity using the various properties of shapes
Sorting Shape Tree	"Tree Sort" to develop knowledge and understanding of shape properties. Used for both 2D and 3D shapes
Shape Hunt	Students explore indoor or outdoor surroundings to identify shapes.
Interactive Polygon Explorer	Web- based resource to explore the properties of polygons.

Bay Head School MATHEMATICS CURRICULUM Unit Overview

Content Area: Mathematics Grade Level: Grade 1

Domain (Unit Title): Number and Operations in Base Ten

Cluster: 1.NBT

Cluster Summary:

- Extend the counting sequence
- Understand place value
- Use place value understanding and properties of operations to add and subtract

Primary Interdisciplinary Connections:

- **RL.K.4** Ask and answer questions about unknown words in a text.
- RF K.4 Read emergent text with one-to-one correspondence to develop fluency and comprehension skills.
- W.K.5 With guidance and support from adults, strengthen writing through response and self-reflection using questions and suggestions from peers (e.g., adding details).
- **SLK.1** Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.

Computer Science and Design Thinking

- 8.1.2.DA.1: Collect and present data including climate change data, in various visual formats
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Career Readiness, Life Literacies, and Key Skills

- 9.1.2.CR.1: Recognize ways to volunteer in the classroom, school and community.
- 9.1.2.PB.2: Explain why an individual would choose to save money.
- 9.4.2.Cl.2 Demonstrate originality and inventiveness in work (e.g. 1.3A.2CR1a).
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- 9.4.2.CT.3: Use a variety of types of thinking to solve problems (e.g.,inductive, deductive).
- 9.4.2.TL.5: Describe the difference between real and virtual experiences.

Learning Targets

Content Standards: Number and Operations in Base 10

Number **Performance Expectations**

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.2	Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases: a. 10 can be thought of as a bundle of ten ones — called a "ten" b. In numbers 11-19 there is composed of 1 ten and one, two, three, four, five, six, seven, eight, or nine ones c. 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 on meanings of the tens and ones digits, recording the results of comparisons with the symbols <, =, and >.
1.NBT.4	Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.
1.NBT.5	Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.
1.NBT.6	Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

 Unit Essential Questions Can numbers always be related to tens? Why not always count by 1? Why was a place value system developed? How does a position of a digit affect its value? 	Unit Enduring Understandings Students will understand that • the comparison of numbers helps to communicate and to make sense of the world.
How big is 100?	

Unit Objectives

Students will know...

- to visualize and make representations of their ideas.
- to count and order both real and imaginary objects.
- abstract and quantitative reasoning.

Unit Objectives

Students will be able to...

- extend the counting sequence.
- understand place value.
- use place value understanding and properties of operations to add and subtract.

Evidence of Learning

Suggested Formative Assessments:

- Teacher Observation
- Performance Assessment
- Exit Slips/Slate Assessment
- Portfolios/Journals
- Pre-Assessment

- · Games
- · Anecdotal Records
- · Oral Assessment/Conferencing
- · Daily Classwork

Suggested Summative Assessments:

- End-of-unit or -chapter tests.
- Final projects or portfolios.
- Achievement tests.

Benchmark Assessments

- AIMSWeb Testing (Fall, Winter, Spring)
- End of Unit or Chapter Test

Alternate Assessments

- Collaborative testing/learning
- Student portfolios
- Performance testing
- Conferencing
- Creations (hands on)

Performance Tasks/Use of Technology

Performance Tasks: Classwork

Projects

Use of Technology: Laptops or iPads

Smartboard STEAM Lab

Modifications (Special Education, Gifted and Talented, ELLs):

IEP modifications:

- Modified classroom and homework assignments
- Teacher tutoring
- Parent teacher communication
- Anchor charts and visual aids
- Flexible grouping
- Teacher student goal setting
- Technology integration
- Centers
- Response to intervention

504 Modification Plan:

- After school tutoring
- Constant parental contact
- Extra time for completion of work
- Possible partial credit
- Graphic organizers
- More/less time as appropriate
- Modified writing assignment lengths
- Timelines and checkpoints
- Small group instruction as needed
- Anchor activities
- Instructional technology as needed/required
- Appropriate scaffolding provided as necessary
- Anchor charts
- Guided notes
- Preferential seating

Gifted and Talented

- Multi-step and higher level math problems
- Enrich problems
- Extend activities
- Centers
- Student driven activities
- Student choice activities
- Peer tutoring

English Language Learners:

- Visuals
- Gesturing
- Miming and roleplay
- Use of manipulatives
- Simplified language/teacher talk/thinking aloud
- Providing a student buddy

Suggested activities for lesson plans:

What am I?	3D shape naming activity using the various properties of shapes
Sorting Shape Tree	"Tree Sort" to develop knowledge and understanding of shape properties. Used for both 2D and 3D shapes
Shape Hunt	Students explore indoor or outdoor surroundings to identify shapes.
Interactive Polygon Explorer	Web- based resource to explore the properties of polygons.

Bay Head School MATHEMATICS CURRICULUM Unit Overview

Content Area: Mathematics Grade Level: First Grade

Domain (Unit Title): Geometry

Cluster: 1.G

Cluster Summary:

• Reason with shapes and their attributes

Primary Interdisciplinary Connections:

- **RL.K.4** Ask and answer questions about unknown words in a text.
- **RF K.4** Read emergent text with one-to-one correspondence to develop fluency and comprehension skills.
- W.K.5 With guidance and support from adults, strengthen writing through response and self-reflection using questions and suggestions from peers (e.g., adding details).
- **SLK.1** Participate in collaborative conversations with diverse partners about *kindergarten topics and texts* with peers and adults in small and larger groups.

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Career Readiness, Life Literacies, and Key Skills

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Learning Targets

Content Standards: Geometry

Number	Performance Expectations
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.
1.G.2	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.	
1.G.3	Partition circles and rectangles into two and four equal shares: Describe shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of Describe the whole as two of, or four of the equal shares Understand that decomposing into more equal shares creates smaller shares	

Unit Essential Questions

- How do you share a whole equally?
- Why is a cube not a square?

Unit Enduring Understandings

Students will understand that...

- many objects in the world can be described using geometric shapes and relationships.
- geometry gives us the language to describe these objects.

Unit Objectives

Students will know...

• to use attributes of shapes to reason.

Unit Objectives

Students will be able to...

- build and draw two and three-dimensional shapes.
- partition circles and rectangles into halves and fourths

Evidence of Learning

Suggested Formative Assessments:

- Teacher Observation
- Performance Assessment
- Exit Slips/Slate Assessment
- Portfolios/Journals
- Pre-Assessment

- · Games
- · Anecdotal Records
- · Oral Assessment/Conferencing
- · Daily Classwork

Suggested Summative Assessments:

- End-of-unit or -chapter tests.
- Final projects or portfolios.
- Achievement tests.

Benchmark Assessments

- AIMSWeb Testing (Fall, Winter, Spring)
- End of Unit or Chapter Test

Alternate Assessments

- Collaborative testing/learning
- Student portfolios
- Performance testing
- Conferencing
- Creations (hands on)

Performance Tasks/Use of Technology

Performance Tasks: Classwork

Projects

Use of Technology: Laptops or iPads

Smartboard STEAM Lab

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Gifted and Talented

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