



Blessed Sacrament School **Curriculum Maps by Grade**

Pre-School and Pre-Kindergarten

Literacy

Objectives
<ul style="list-style-type: none">• Develop listening and speaking skills• Develop comprehension and thinking skills• Use appropriate ways of interacting with others with words• Participate in class discussion-ask and answer questions• Talk about personal experiences or interests• Listen to and use formal and informal language• Listen to various forms of literature• Develop familiarity with letter forms and print• Identify sounds of each letter• Link letters with sounds in play activities

- Engage in read aloud activities
- Listen to and recite familiar literature
- Relate themes to personal experiences
- Recognize and reproduce rhymes
- Use emergent writing skills to make letters
- Generate questions-use question words
- Identify and write first and last names
- Introduce proper pencil grip
- Proper letter formation of upper case letters
- Act out stories and poems
- Break words into syllables by clapping or tapping
- Find pictures or words that begin with initial sounds
- Fill in rhyming words in stories, poems and songs
- Create letters using various materials

Numeracy

Objectives
<ul style="list-style-type: none"> ● Listen to and say the names of number ● To connect quantities of concrete objects to numbers ● Use ordinal numbers ● Use concrete objects to solve simple addition and subtraction problems ● Understand and use comparative language with quantities ● Understand concepts of whole and half ● Describe objects ● Sort or categorize objects ● identify and create patterns ● Identify shapes ● Use comparative words to describe an object's relationship to another ● Use estimation in meaningful ways

- Use non standard units of measurement

Number Sense	Patterns and Relations
<ul style="list-style-type: none"> ● Know number names and count the sequence ● Use concrete objects to practice one-to-one correspondence ● Rote counting to 20 ● Ordering numbers on a number line ● Compare groups to find more, fewer, and same as ● Count the number of objects in each category and sort the categories by count ● Arrange objects in order (small to large, short to long) etc. ● Use ordinal numbers and position words correctly ● Understand the concepts of whole and half-identify examples of each 	<ul style="list-style-type: none"> ● Identifying and creating patterns ● Use words that describe characteristics of objects ● Classify an object's different attributes ● Find patterns in everyday environment ● Repeat clapping patterns
Measurement and Data	Shapes and Spatial Sense
<ul style="list-style-type: none"> ● Describe length as a measurable attribute of objects ● Describe objects by more than one attribute ● Compare objects by length ● Compare objects by height ● Compare by weight ● Same and different ● Sorting the same set in different ways ● Sorting by more than one attribute ● Create class graphs related to various themes 	<ul style="list-style-type: none"> ● Identify and describe shapes (squares, circles, triangles, rectangles) ● Describes shapes and space ● Position and location of shapes (inside/outside, above, below, and on, in front of and behind, left and right) ● Same size, same shape ● Making shapes from other shapes ● Building with solid figures ● Measure with various containers and compare amounts ● Use a scale to compare weight of different materials

Religion

Note: In the fall of 2016, the Archdiocese of Boston released detailed Faith Formation Standards for use in all Archdiocesan schools. BSS is currently using these standards to evaluate the content and objectives of our current Religion curriculum to ensure alignment with these standards for Pre-School and Pre-Kindergarten.

See the curriculum page of our website for the Faith Formation Standards.

Kindergarten

Reading and Language

Objectives
<ul style="list-style-type: none">• Sound mastery• Learn how to blend words with multi-sensory methods• Apply phonics skills to decode words, phrases, and sentences.• Develop vocabulary from hearing stories read aloud and classroom discussions• Record thoughts and ideas during journal writing• Automatic recognition of 27 high frequency “trick” words• Develop quick and automatic word recognition• Begin to read with prosody and expression• Understand that they key purpose of

informational text is to teach or provide information about a specific topic

- Develop listening and speaking skills
- Develop comprehension and thinking skills

Foundational Skills	Language and Writing
<ul style="list-style-type: none"> ● Identify both upper and lower case letters ● Identify the sound of each letter ● Listen to the sound and identify the corresponding letter(s) ● Identify direction of print (left to right, top to bottom) ● Differentiate between letters, words, and sentences ● Identify rhyming words ● Tap and blend sounds into words ● Read CVC words 	<ul style="list-style-type: none"> ● Identify and write first and last names ● Use writing grid appropriately ● Use proper pencil grip ● Proper letter formation for upper and lower case letters ● Respond to journal prompts ● Learn how to expand sentences to better reflect the meaning of the selected words ● Participate in shared writing experiences (collaborating and creating class books) ● Participate in class discussions ● Orally retell a story ● Express feelings and ideas ● Act out stories and poems
Literature and Informational	Vocabulary Use and Functions
<ul style="list-style-type: none"> ● Identify how to handle a book properly ● Choral reading of stories to help develop fluency ● Retell the sequence of events ● Create mental images with listening comprehension ● Understand the difference between narrative fiction and informational, nonfiction text ● Describe setting and characters in a story ● Describe major events and character feeling in a story ● Describe features of information text ● Identify and use terms author and illustrator with ease ● Make predictions ● Ask and answer questions related to a text ● Understand main idea of a text 	<ul style="list-style-type: none"> ● Use pictures to determine unknown words ● Identify opposites ● Identify synonyms ● Identify antonyms ● Identify position words (behind, after, next to, etc) ● Describe and give definitions of words

- Construct visual images

Math

Objectives
<ul style="list-style-type: none"> • Develop an understanding that numbers can be used for different purposes • Develop an understanding that numbers can be classified and represented in different ways • Proper numeral formation (numbers to 20) • Solve quantitative problems by counting, comparing, and joining and separating sets • Apply strategies to answer quantitative questions • Recognize the cardinality of small sets of objects • Describe objects using geometric ideas • Identify, name, describe, and compare two-and three- dimensional shapes

Operations and Algebraic Thinking	Numbers and Operations
<ul style="list-style-type: none"> • Know number names and count the sequence • Counting groups of ten • Ordinal numbers through fifth • Ordering numbers on a number line • Looking for patterns on a hundred chart • Represent addition with objects, fingers, drawings, etc. • Understand addition as putting together and adding to • Use the plus sign (+) to represent joining groups • Identify and use the equal sign (=) • Understand subtraction as taking apart and taking from • Use the minus sign (-) to represent “take away” situations 	<ul style="list-style-type: none"> • Representing, relating, and operating on whole numbers, initially with set of objects • Work with numbers 11-19 to gain foundations for place value • Look for patterns in numbers • Compose and decompose numbers 11 to 19 • Creating sets to 19

<ul style="list-style-type: none"> ● Compare two groups to find more, fewer, and same as ● Writing number sentences with sums to 10 ● Classify objects into given categories ● Count the number of objects in each category and sort the categories by count 	
Measurement and Data	Geometry
<ul style="list-style-type: none"> ● Describe length as a measurable attribute of objects ● Describe objects by more than one attribute ● Compare objects by length ● Compare objects by height ● Compare capacities ● Compare by weight ● Compare and contrast using language of same and different ● Sorting the same set in different ways ● Sorting by more than one attribute ● Classify objects into graphs ● Counting the number of objects in a graph ● Real graphs/picture graphs 	<ul style="list-style-type: none"> ● Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres) ● Analyze, compare, compare, create, and compose shapes ● Describes shapes and space ● Position and location of shapes (inside/outside, above, below, and on, in front of and behind, left and right) ● Same size, same shape ● Making shapes from other shapes ● Building with solid figures

Science

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Demonstrate some of the different ways scientists make observations. ● Demonstrate some of the different ways scientists try to solve problems. ● Contribute to group projects and reports about the topic being learned ● Contribute to the development of class graphs and charts. ● Use scientific vocabulary appropriately. ● Recognize that plants are living things that grow, reproduce, and need food, air, and water. ● Observe and describe the changes in appearance that plants go through as the seasons change. 	<ul style="list-style-type: none"> ● Scientific Process: learn how scientists ask questions, conduct investigations, gather data, formulate explanations ● STREAM projects ● Students use pictures, graphs, writing, etc to track and report on their knowledge. ● Students will participate in group discussions ● Scientific vocabulary through informational text (read-alouds) and science videos ● Life cycle of plants through a hands-on experiments ● Students will observe and record the changes that take place in plants ● Plants and their importance in our lives

<ul style="list-style-type: none"> ● Identify tools and simple machines used for a specific purpose. (e.g. ramp pulley, lever, wheel). ● Make observations on how simple machines make our life easier. ● The materials used (and their characteristics) and the way materials are put together affect the stability of a structure. 	<ul style="list-style-type: none"> ● Experiments to explore simple machines ● Explore the properties of building materials. Students will use a variety of materials to build a structure. Students will test the stability of their structure, make observations, and improve their design
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Social Studies

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Students will investigate the symbols, traditions, and histories of national and religious holidays. ● Identify the current President of the United States. ● Students will practice civics by means of classroom community building (rule making, problem-solving, sharing, and voting). ● Identify sequences of days, weeks, months, years, and seasons. ● Students will identify themselves as members of a broader social structure/community. ● Describe characteristics of self. ● Identify self as a member of a family structure Develop appreciation for individual differences. ● Identify community helpers (i.e., firemen, policemen, teachers, priest, doctors, etc.) ● Students will also be introduced to narratives about historical events and people so as to develop an awareness of the 	<ul style="list-style-type: none"> ● Student will develop understanding for various holidays and traditions. <ul style="list-style-type: none"> ○ Identify and describe the events and people during US holidays and why we celebrate. ○ Identify the following American symbols: The American flag, (its colors and shapes); The picture and name of the current president and vice president; The words of the pledge of allegiance. ● Students will help determine classroom rules. ● Students will learn the days, weeks, months, year, and season during daily calendar activities. Students will sing songs and recite poems to help learn content. ● Students will recognize that families share similarities and differences through class discussions and read alouds. ● Students will see the important roles/jobs that people in the community members have to take care of others. ● Students will learn about the First Thanksgiving. Students will

differences and similarities between now and long ago.	participate in acting out the First Thanksgiving using song and prayer.
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Religion

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See the curriculum page of our website for the Faith Formation Standards.

Grade 1

Reading and Language

Objectives
<ul style="list-style-type: none">• Consonant and short and long vowel sound mastery• Blending and segmenting words up to five sounds• Application and recognition of digraphs and glued sounds for decoding and encoding• Application and recognition of punctuation (?,

- ! , and .)
- Proofreading strategies
- Bonus letter spelling rule
- Narrative story form including character, setting and main events
- Base word and suffix rules for decoding and encoding
- Reading with accuracy, prosody and expression
- Recognition of r-controlled vowels and vowel teams for decoding and encoding
- Recognition of syllable types
- Concept of multisyllabic and compound words and knowledge of division principles
- Automatic recognition and application of 79 grade level trick words

Foundational Skills	Language and Writing
<ul style="list-style-type: none"> ● Identify letter-keyword-sound/s (including consonants, long and short vowels, digraphs, and glued sounds) ● Automatic recognition and application of 79 grade level trick words ● Application and recognition of punctuation (?, !, and .) ● Identification of commas, quotation marks and apostrophes in written text ● Accurately and independently read and comprehend controlled grade level text ● Consistently recognize r-controlled vowels and vowel teams for decoding 	<ul style="list-style-type: none"> ● Correct letter formation for upper and lowercase letters ● Correct pencil grip ● Active classroom participation ● Orally retell events from literature ● Consistently apply punctuation and capital letters ● Weekly journaling using familiar writing prompts ● Self-edit written work for capitalization, punctuation, word order and semantics ● Identification and application of taught contractions ● Independently generate a cohesive paragraph with a beginning, middle and end
Literature and Informational	Vocabulary Use and Functions
<ul style="list-style-type: none"> ● Document and identify characters, setting and main events from literature ● Make predictions and inferences with evidence to support ideas ● Use comprehension skills and strategies to retell both orally and in written form the details of a story ● Oral reading with accuracy, prosody and 	<ul style="list-style-type: none"> ● Define taught vocabulary and apply vocabulary in oral and written expression ● Discern between taught homophones ● Cross-curricular vocabulary introduction and application (science, math, religion) ● Understand new vocabulary before reading for application to text

expression

Math

Objectives
<ul style="list-style-type: none">• Develop understanding of addition, subtraction, and strategies for solving addition and subtraction problems to 20• Develop understanding of whole number relationships and place value, including tens and ones• Develop understanding of measurement and measuring lengths• Develop understanding of time and telling time to the hour and half hour• Develop understanding of charts and organized lists, including using data to answer questions• Develop understanding of reasoning about attributes of and constructing and deconstructing geometric shapes• Develop mathematical vocabulary applicable to operations, place value, measurement, data, and geometry

Operations and Algebraic Thinking
<ul style="list-style-type: none">• Spatial patterns for numbers to 20• Connect addition and subtraction• Connect models and symbols• Recognize and represent numbers on a ten-frame• Find missing parts of numbers to 20• Draw pictures to solve problems to 20• Act out to solve problems to 20• Solve problems with three numbers
Measurement and Data

Numbers and Operations
<ul style="list-style-type: none">• Make and using numbers to 20• Count on a hundreds chart• Make numbers on a hundreds chart• Count and solve on a number line• Use skip counting (2, 5, 10)• Identify patterns• Identify numbers made with tens• Express numbers in expanded form• Identify and using doubles and near doubles to solve problems
Geometry

<ul style="list-style-type: none"> ● Collect and compare data ● Make an organized list ● Use data from real, picture, bar and tally graphs ● Make picture and real graphs ● Understand the hour and minute hands ● Tell and write time to the hour and half hour ● Compare and order by length ● Indirect measurement ● Use units to estimate and measure length 	<ul style="list-style-type: none"> ● Identify plane and solid shapes ● Identify properties of plane and solid shapes ● Identify flat surfaces and vertices ● Sort plane and solid shapes by attributes ● Build with shapes and solid figures ● Make and describe equal parts ● Make halves and fourths with plane shapes
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Science

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Students recognize that landforms change over time through study of different natural materials and resources using comparing, communicating and observing ● Students recognize that solids, liquids, and gasses makeup the natural world around them as well as identify materials that take on different states using comparing, communicating and observing ● Students recognize the cycle of life of a butterfly and how God's creations in our own environment change and grow over time. ● Students can identify and explain the life cycle from caterpillar to butterfly using pertinent science terminology ● Students can identify and explain each of the five senses and their important roles using correct science terminology ● Students explore their local environment and learn about the ways in which the five senses support animals and insects in this environment 	<ul style="list-style-type: none"> ● Properties of pebbles, sand, and silt ● Properties of solids and liquids ● Properties of materials both familiar and unfamiliar and identify the ways in which their properties are alike and different both orally and in written form ● The life cycle of a butterfly through a hands-on multi-week lab experiment ● Hands-on activities to explore each of their five senses and the importance role each sense plays in exploration of our environment ● The ways in which animals and insects in their environment are helped or hindered by their use of the five senses

Social Studies

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Identify sequences of days, weeks, months, years, and seasons. Use language and phrases related to time. ● Describe a map as a representation of a space. ● Identify directions (north, east, south, west) and apply them to familiar maps ● Give examples to show understanding of the character traits of St. Francis celebrated at BSS ● Give examples of services that people do for each other. ● Give examples of the choices people have to make about the goods and services they buy and why the choices are made ● Identify the current President of the United States and describe basic voting ● Say Pledge of Allegiance and sing America the Beautiful and explain their meaning ● Give reasons for celebrating the events or people commemorated in various holidays. ● reasons for noting the days that mark the changes in seasons. ● Using American literature, students describe character's qualities ● Explain that Americans have a variety of faiths and customs and explain them. 	<ul style="list-style-type: none"> ● Identify days, dates and time during daily calendar and discuss change of seasons ● Create basic maps of our school and town communities ● Introduce and discuss basic map vocabulary and how to follow a map with directionality ● Using first grade literature explore and discuss qualities of being a citizenship ● Lead and participate in service projects to support the school and community ● Locate and understand state and capital position on a map and the capital of the US ● Incorporate current events (ex: presidential election) ● Identify the American Flag and its importance and history of our nation. ● Explore literature related to various holidays and customs and connect them to those we celebrate

Religion

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Grade 2

Reading and Language

Objectives
<ul style="list-style-type: none">● Identify main topic or idea in grade-level text● Show understanding of key details in a text● Find evidence in the text to support the author's message● Retell stories with detail● Describe main message, lesson or moral from stories● Describe actions and responses of characters in a story● Determine meanings of words or phrases relevant to the topic● Find connections between a series of events, ideas, concepts or steps in a text● Identify differences in points of view of characters● Use texts to find information and answer questions following a step-by-step inquiry process● Read and understand grade-level literary and informational text independently● Write a paragraph

Foundational Skills	Language and Writing
<ul style="list-style-type: none"> ● Apply grade level phonics and word analysis skills in reading words ● Decode irregularly spelled grade-level words ● Read grade-level texts with purpose and understanding ● Orally read grade-level texts with accuracy, expression, and fluency ● Confirm and self-correct words during oral reading 	<ul style="list-style-type: none"> ● Write stories that include details, put events in order, and provide a conclusion ● Express ideas and feelings clearly ● Describe people, places, things and events with relevant details from text ● Give and follow simple two-step directions ● Participate in conversations with partners and groups ● Listen to and respond to others with focus and care ● Edit work with support ● Take part in research and writing projects ● Gather information from various sources to answer questions ● Create written and visual works to summarize and share information
Literature and Informational	Vocabulary Use and Functions
<ul style="list-style-type: none"> ● Read and react to literary text ● Read and react to informational text ● Ask and answer questions about key details in a text or in an oral presentation ● Tell an experience with appropriate facts and relevant details ● Make predictions based on support from text ● Make inferences with evidence to support ideas ● Make text-to-self connections ● Make text-to-text connections ● Make text-to-world connections 	<ul style="list-style-type: none"> ● Use legible printing skills with accurate letter formation ● Correctly use nouns, pronouns, verbs and adverbs ● Produce complete simple sentences ● Capitalize names, holidays, and geographic names (states, countries, continents, cities) ● Use end punctuation ● Use of beginning dictionaries and other reference materials ● Use simple, common spelling rules

Math

Grade 2 - Math	Objectives
	<ul style="list-style-type: none"> ● Develop understanding of addition, subtraction strategies for solving addition and subtraction problems to 1,000 ● Develop understanding of whole number relationships and place value, including tens, ones, hundreds, thousands ● Develop strategies for mentally

	<p>addition and subtraction</p> <ul style="list-style-type: none"> ● Develop understanding of measurement and measuring lengths ● Develop understanding of time and telling time to the hour and half hour ● Develop understanding of charts and organized lists, including using data in graphs to answer questions ● Develop understanding of time to quarter hour ● Develop understanding of reasoning about attributes of and constructing and deconstructing geometric shapes ● Develop mathematical vocabulary applicable to operations, place value, measurement, data, money, and geometry
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Operations and Algebraic Thinking	Numbers and Operations
<ul style="list-style-type: none"> ● Solve 1 or 2 step addition and subtraction problems within 1,000 ● Mentally add and subtract within 20 with speed and accuracy ● Work with equal groups to build foundations for multiplication and division 	<ul style="list-style-type: none"> ● Read, write, compare numbers to 1,000 ● Identify numbers as odd or even ● Understand place value through one thousands ● Understand 100 as one hundred, zero tens, zero ones ● Skip count by twos, fives, tens, and hundreds to 1,000 ● Understand the concept of zero ● Write numbers up to three digits in expanded form ($123 = 100 + 20 + 3$) ● Mentally add or subtract 10 from a number 100 thru 1,000 ● Estimate sums and differences with multiples of 10
Measurement and Data	Geometry
<ul style="list-style-type: none"> ● Choose appropriate tools to measure units and length ● Measure and estimate using inches, feet, 	<ul style="list-style-type: none"> ● Recognize and draw shapes with specified attributes ● Identify triangles, quadrangles, pentagons,

<ul style="list-style-type: none"> centimeters and meters ● Measure to compare lengths of objects ● Solve addition and subtraction problems using same-unit lengths ● Represent sums and differences within 100 on a number line ● Tell and write time (am and pm) to the nearest 5 minutes ● Explain relationships between seconds, minutes, hours and days ● Solve word problems using dollar bills and coins ● Generate measurement data ● Represent data on a bar graph or circle graph ● Analyze and solve problems with data on line plots, picture graphs or bar graphs 	<ul style="list-style-type: none"> hexagons ● Identify cubes, rectangular prisms, spheres, pyramids and cones ● Describe a whole as two halves, three thirds, four quarters
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Science

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Explore concepts of balance, counterweight, and stability ● Understand systems that are unstable and modify them to reach equilibrium ● Recognize different ways to produce rotational motion ● Construct and observe toys that spin. ● Describe some of the variables that influence the spinning of objects ● Observe and compare rolling systems with different-sized wheels ● Explore and describe the motion of rolling spheres ● Understand the vocabulary associated with balance and motion ● Identify and understand importance of nonfiction text features (Headings, Table of Contents, Glossary) ● Explore and classify living and nonliving things. ● Identify the needs of living things. ● Identify the parts of plants as leaves, stem, roots, flowers, fruits, seeds. ● Understand the life cycle of a plant ● Identify animal groups as mammals, birds, 	<p>FOSS Kit: Balance and Motion</p> <ul style="list-style-type: none"> ● Properties of balance, counterweight, stability ● Use science vocabulary appropriately orally and in writing ● Hands-on activities to explore balance and motion <p>Life Science-McGraw Hill Unit A: Plants and Animals</p> <ul style="list-style-type: none"> ● Observe, draw, diagram and chart the growth of plants and animals ● Collaborate with peers in documenting growth <p>STREAM: "Protect the Eggs!"</p> <ul style="list-style-type: none"> ● Integration of subject areas in celebration of life, growth, development of animals

<p>reptiles, amphibians, fish and insects.</p> <ul style="list-style-type: none"> ● Identify and understand that animals need air, water, food and shelter. ● Order the life cycle of various animals. ● Identify the stages in the life cycle of a chick. 	
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Social Studies

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Compare maps/globes, use symbols, compass rose to identify cardinal directions. ● Identify characteristics of community/neighborhood. ● Find places on a neighborhood map ● Compare characteristics of cities/suburbs ● Read a calendar ● Characteristics of rural, urban, suburban communities ● Locate visual representations of global address:community, state, country, continent, world. ● Locate on globe the poles, hemispheres, and equator. ● Identify landforms, bodies of water. ● Tell difference between weather/climate. ● Compare places that have different climates. ● Describe, identify landform/ regions. ● Identify main idea and supporting details of a passage. ● Use Timeline to determine sequence. ● Explain importance of American symbols/landmarks, ● Explain difference among national, state and religious holidays. 	<p>STREAM:Postcard Project: Different forms of Communication around the World</p> <p>Houghton Mifflin, <u>Social Studies:Neighborhoods</u></p>

Religion

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Grade 3

Reading and Language

Objectives
<ul style="list-style-type: none">● Retell story describing, setting, characters, plot, solution● Make connections - text to text, text to self, and text to world● Make predictions using support from text● Make inferences using pictures and support from text● Determine main idea of informational texts and use information to answer comprehension questions in writing● Write in various genres

Literature	Informational Text
<ul style="list-style-type: none"> ● Demonstrate explicit comprehension of text by answering related questions ● Determine the moral and message of different types of fables, folktales, and myths ● Describe character and traits by reading thoughts and actions and then predict the character's response to situations based on traits ● Determine meaning of words based on context clues ● Determine author's point of view and compare it to own ● Use illustrations to enhance comprehension of text ● Begin to develop understanding of different types of poetry 	<ul style="list-style-type: none"> ● Demonstrate explicit comprehension of informational texts by answering related questions ● Begin to develop skills in determining the main idea and supporting details ● Determine cause and effect of scientific and historic events using time lines, sequencing maps, and graphic organizers ● Identifies meaning of vocabulary and keywords ● Begins to develop skills in using text features and online search tools to locate information ● Gain additional information from visual text features including maps, charts, illustrations, and diagrams ● Uses appropriate transition words to relay knowledge in a to sequence
Vocabulary Acquisition and Use	Language: Understand, Edit for Grammar, Usage
<ul style="list-style-type: none"> ● Use glossaries or dictionaries to determine or clarify the meaning of words ● Use context clues to determine meaning of words ● Begin to determine meaning of words using Latin roots and affixes 	<ul style="list-style-type: none"> ● Identify nouns, pronouns, verbs, adjectives and adverbs in sentences and understands their function ● Properly use appropriate verb tense (past, present, future) when forming sentences ● Identify and use simple, compound, and complex sentences ● Identify complete sentences and fragments ● Identify the subject an predicate in a simple sentence ● Write contractions for pairs of words ● Identify the correct articles to use with nouns
Language: Understand, Edit Mechanics	Writing
<ul style="list-style-type: none"> ● Identify and properly punctuate the four types of sentences ● Capitalize proper nouns, book titles, and the beginning of a sentence ● Use commas to separate words in a series ● Indicate a speaker's words with the proper use of quotation marks ● Distinguish between proper use and spelling of grade-level homophones 	<ul style="list-style-type: none"> ● Brainstorm personal narrative topics ● Focus stories on specific, small moments rather than on an entire event or day. ● Organize narrative writing into sequence of events ● Use dialogue and descriptions to demonstrate actions, feelings ● Introduce an opinion on a topic and provide reasons that support the opinion

<ul style="list-style-type: none"> • Use proper spelling of high-frequency words and when adding suffixes to base words 	<ul style="list-style-type: none"> • Provide an introduction, body, and conclusion to form a full opinion writing piece • Identify and research an informative topic • Develop topic with facts, definitions, and detail
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Math

Objectives
<ul style="list-style-type: none"> • Expand understanding of whole number relationships and properties to solve 3-digit arithmetic • Develop understanding of place value, up to 4-digits • Develop understanding of estimation, to nearest 10 and 100 • Develop understanding of the properties of multiplication and is able to represent and solve basic facts • Develop an understanding of the relationship between the multiplication and division • Represent and solve problems involving the four operations • Identify equal parts of a whole as fractions • Identify and distinguish between shapes based on their attributes • Develop an understanding of time telling to the nearest half hour, quarter hour, and minute • Develop problem solving-skills by representing data using charts, diagrams, organized lists, and pictures • Define and utilize mathematical vocabulary terms when describing the steps taken to solve problems

Operations and Algebraic Thinking	Numbers and Operations
<ul style="list-style-type: none"> • Represent basic multiplication facts as repeated addition • Represent basic multiplication facts using arrays • Break complex arrays into simpler known facts 	<ul style="list-style-type: none"> • Use knowledge of place value to solve multi-digit addition and subtraction problems • Name and represent 4-digit numbers with drawings and base-ten blocks • Identify and write 4-digit numbers in word

<p>to solve more complicated multiplication problems</p> <ul style="list-style-type: none"> • Write and solve single-digit multiplication word problems using key words • Identify and use properties of multiplication to solve problems • Identify multiplication keywords when problem solving. • Solve multi-step multiplication word problems • Understand the relationship between multiplication and division through fact families • Represent division facts as repeated division. • Rewrite division number sentences as multiplication equations with a missing factor • Solve word problems involving the four operations while using keywords to identify the appropriate operation to use 	<p>form, expanded form, and standard form</p> <ul style="list-style-type: none"> • Identify and write 6-digit numbers in standard form • Identify and use properties of addition to solve equations • Use understanding of place value to round whole numbers to the nearest 10 or 100 • Use knowledge of place value to round and estimate sums and differences of multi-digit numbers • Recognize wholes that have been divided into equal parts • Uses fractions to name the parts of a whole • Represent fractions on a number line • Use fractions to estimate parts of a whole • Compare fractions with the same denominator • Compare fractions with the same numerator • Identify equivalent fractions
Measurement and Data	Geometry
<ul style="list-style-type: none"> • Tell time to the nearest half hour and quarter hour • Tell time to the nearest minute • Change between units of time • Measure elapsed time • Identify the perimeter around a polygon • Measure the area of a shape • Use a formula to find area 	<ul style="list-style-type: none"> • Understand basic geometric terms • Distinguish among different polygons based on number of sides • Uses knowledge to distinguishes among different quadrilaterals based on characteristics • Recognize and name triangles based on length of sides and types of angles • Form new shapes by combining known shapes

Science

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> • Identify the difference between ecosystems, habitats, communities, populations and how they relate. • Make connections between food chains and food webs with an understanding that all parts of an ecosystem are connected. • Explore various animal adaptations and 	<p>Life Science-McGraw Hill Unit B: Where Plants and Animals Live</p> <ul style="list-style-type: none"> • Nonfiction text features are introduced and students are taught skills to aid in text navigation.

<ul style="list-style-type: none"> understand their purpose for survival. Identify the relationship between predators and prey and explain how it keeps an ecosystem in balance. Identify how changes in an ecosystem affect the plants and animals that live there. <ul style="list-style-type: none"> Understand the role of environmental engineers that help solve problems related to the environment. Understand that environmental problems are almost never isolated because all parts of an ecosystem are connected. Understands that the Engineering Design Process is a tool that can be used to help solve problems and can name the steps. Make a model river to test which materials work better to absorb and contain an oil spill. Gain experience following the steps of the Environmental Engineer Process to design a process for cleaning an oil spill. Learn how to successfully solve an environmental problem while staying within budget. <ul style="list-style-type: none"> Observe the interaction of permanent magnets with a variety of common materials. Understand that magnets are attracted to materials containing iron. Discover that magnets display forces of attraction and repulsion. Identify materials that are conductors and insulators. Create open, closed, parallel, and series circuits. Identify and define vocabulary terms associated with magnetism and electricity. Use science thinking processes to conduct investigations. 	<ul style="list-style-type: none"> Students circulate through adaptation centers to explore various animal adaptations and their purpose. Interactive Jeopardy Review Game <p>Engineering is Elementary: Cleaning an Oil Spill</p> <ul style="list-style-type: none"> Engineer design process Test pH levels of soil samples from a fictional town affected by pollution Create an interconnected web to demonstrated the relationship between different parts of an ecosystem Use iPads to create a YouTube tutorial on how to clean an oil spill Fulfill God's call for Christians to act as environmental stewards Apply knowledge of poetry and write diamante poems comparing healthy ecosystems to polluted ones Graph their use of the budget using a pie chart and fractions <p>FOSS Kit: Magnetism and Electricity</p> <ul style="list-style-type: none"> Various hands-on activities and experiments exploring the properties of magnets. Collaboration of students on the constructing of electric circuits
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Social Studies

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> Understand how and why people establish 	<p>Essential Questions:</p>

- communities to meet basic needs.
- Identify the unifying characteristics of different communities
 - Use maps and globes to locate places, physical features such as landforms and bodies of water, and features made by humans
 - Understand the environment varies from one place to another and influences how and where people, plants, and animals live
 - Recognize that communities change over time
 - Understand that conflicts sometimes arise over resources
 - Recognize and explain that our nation has been shaped by events and actions of the past
 - Understand that the actions of individuals can affect history
 - Explain that the U.S. government was founded on democratic principles and beliefs
 - Understand and distinguish among the three branches of government and each branch's power to protect the rights of citizens
 - Distinguish among local, state, and national governments' abilities to enforce laws and provide different kinds of services to meet the needs of citizens
 - Understand that good citizens participate in their communities and work for the common good
 - Identify American heroes and explain how they have taken risks and overcome obstacles to help others
 - Explain the importance of civic organizations that work to benefit the common good
 - Describe how and why communities change over time
 - Explain how technological developments affect how people live
 - Understand how individuals can affect communities
 - Explain that some things may change over time in a community and some things remain the same

- What makes a good community?
- How do we interact with our planet?
- How does our past affect our present?
- Why do we have a government?
- How can I participate?
- How does life change throughout history?

Text: My World Social Studies, We are Connected

- Our Communities
- Our Environment
- Communities Build a Nation
- U.S. Government
- Citizenship
- A Growing Nation

Religion

Note: In the fall of 2016, the Archdiocese of Boston released detailed Faith Formation Standards for use in all Archdiocesan schools. BSS is currently using these standards to evaluate the content and objectives of our current Religion curriculum to ensure alignment with these standards for Grade 3.

See the curriculum page of our website for the Faith Formation Standards.

Grade 4

Reading and Language

Objectives
<ul style="list-style-type: none">• Use details to summarize, infer, determine setting, describe characters and events• Compare and contrast characters, similar topics, myths, stories from different cultures• Make connections independently to literary and informational texts• Write routinely over extended time frames• Build speaking and listening skills across disciplines• Demonstrate conventions of standard English - punctuation, capitalization, and spelling when writing and speaking• Demonstrate meaning and understanding of figurative language, word relationships, and nuances in word meanings

Literature	Informational Text
<ul style="list-style-type: none"> ● Read with fluency and comprehension ● Make predictions, inferences ● Visualize ● Understand author’s purpose ● Use story mapping, attribute web, graphic organizers to understand text ● Explain how author finds reasons and evidence to support outcomes ● Compare and contrast characters, topics, myths, stories from different cultures ● Explain major elements and differences in poetry and dramatic prose ● Discuss text in variety of settings <p>Examples:</p> <p>Assorted stories from HMH into Reading 2020 Daedalus and Icarus retold by Geraldine McCaughrean Greek Myth Reader’s Theater - Midas and the Golden Touch, Athena and Arachne, Demeter and Persephone, Pandora’s Box <i>Sarah, Plain and Tall</i> by Patricia MacLachlan <i>Poppy</i> by Avi <i>Snow Treasure</i> by Marie McSwigan <i>The Year of the Boar and Jackie Robinson</i> by Bette Bao Lord “Thunder Rose” by Jerdine Nolen Tall Tale Reader’s Theater - The Legend of Slappy Hooper, Lightning Larry, Wiley and the Hairy Man <i>Frindle</i> by Andrew Clement</p>	<ul style="list-style-type: none"> ● Read for understanding ● Paraphrase portions of text ● Understand main idea ● Understand cause and effect ● Use pictures, graphs, and charts to understand text <p>Examples:</p> <p>“Starting a Business” by Arlene Erlbach “California Gold Rush” by Elizabeth Van Steenwyk “Henry Wells and William G. Fargo” by Edward F. Dolan, Jr. “The Story of Susan La Flesche Picotte” by Marion Marsh Brown</p>
Vocabulary Acquisition and Use	Language: Understand, Edit for Grammar, Usage
<ul style="list-style-type: none"> ● Determine the meaning of words and phrases in context ● Use glossaries or dictionaries to determine or clarify the meaning of words ● Clarify meaning of unfamiliar and multiple meaning words and phrases ● Build knowledge of synonyms, antonyms, homophones ● Begin to determine meaning of words using Latin roots and affixes <p>Resources:</p>	<ul style="list-style-type: none"> ● Identify nouns, pronouns, verbs, adjectives, adverbs, prepositions in sentences and understands their function ● Properly use appropriate verb tense (past, present, future) when forming sentences ● Identify and use simple, compound, and complex sentences ● Identify complete sentences and fragments independently ● Identify the subject and predicate in a simple sentence ● Write contractions for pairs of words

<p>HMH into Reading 2020 Sadlier Vocabulary Workshop - Level Orange</p>	<ul style="list-style-type: none"> ● Identify the correct articles to use with nouns <p>Resources:</p> <p>John Collins Writing Program Sadlier Grammar Workshop - Level Orange</p>
<p>Language: Understand, Edit Mechanics</p>	<p>Writing</p>
<ul style="list-style-type: none"> ● Identify and properly punctuate the four types of sentences independently ● Capitalize proper nouns, proper adjectives, book titles, and the beginning of a sentence ● Use commas to separate words in a series, independent and dependent clauses ● Indicate a speaker's words with the proper use of quotation marks ● Distinguish between proper use and spelling of grade-level homophones ● Use proper spelling of high-frequency words and when adding suffixes to base words <p>Resources:</p> <p>John Collins Writing Program Sadlier Grammar Workshop - Level Orange</p>	<ul style="list-style-type: none"> ● Write routinely over extended time frames ● Express own ideas with clarity ● Expand on own ideas and those of others ● Plan for writing ● Plan for presentations ● Take notes and categorize information and provide a list of sources ● Revise with support and independently ● Proofread for grammar and spelling errors ● Use technology to publish and present writing ● Reflect on writing process <p>Resources:</p> <p>John Collins Writing Program</p>

Math

<p>Objectives</p>
<ul style="list-style-type: none"> ● Develop an understanding of place value beyond 4-digit numbers ● Develop understanding and fluency with multi-digit multiplication ● Develop understanding of dividing to find quotients involving multi-digit dividends ● Develop an understanding of fraction equivalence ● Develop an understanding of addition and subtraction of fractions with like denominators ● Develop an understanding of multiplication of fractions by whole numbers ● Develop an understand that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle

- measures, and symmetry
- Develop an understanding of measurement and conversion of measurements from a larger unit to a smaller unit

Operations and Algebraic Thinking	Numbers and Operations
<ul style="list-style-type: none"> • Generate and analyze patterns • Multiplication and Division: <ul style="list-style-type: none"> ○ Write and solve multiplication and division word problems using keywords ○ Use properties of multiplication and division ○ Solve word problems involving the four operations while using keywords to identify the appropriate operation to use 	<ul style="list-style-type: none"> • Use knowledge of place value to solve multi-digit addition and subtraction problems • Name and represent numbers beyond 4-digits • Identify and write numbers beyond 4-digit numbers in word form, expanded form, and standard form • Use properties of addition to solve equations • Increase number sense: Multiplying by 1 and 2-digit numbers and dividing by 1-digit divisors • Developing fluency: Multiplying by 1 and 2-digit numbers and dividing by 1-digit divisors • Understand, compare, order fractions • Add, subtract, multiply fractions and mixed numbers with like denominators
Measurement and Data	Geometry
<ul style="list-style-type: none"> • Tell time to the nearest half hour, quarter hour, minute with fluency • Understand and measure elapsed time • Change between units of time • Identify the perimeter around a polygon • Measure the area of a shape • Use a formula to find area 	<ul style="list-style-type: none"> • Understand basic geometric terms including shapes, lines, angles • Distinguish among different polygons based on number of sides • Use knowledge to distinguish among different shapes based on characteristics • Form new shapes by combining known shapes

Science

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> ● Understand the characteristics of animals. ● Compare and contrast characteristics of animals including the presence or absence of a backbone and body plan. ● Classify animals based on symmetry ● Compare and contrast the characteristics of invertebrates: sponges, cnidarians, flatworms, roundworms, segmented worms, mollusks, echinoderms, and arthropods. ● Compare and contrast the characteristics of vertebrates: three classes of fish, amphibians, reptiles, birds, and mammals. ● Describe ways animals can help people. ● Compare and contrast the structures of organ systems in animals. ● Describe the functions of organ systems in animals. ● Explore that animals must reproduce for their species to survive. ● Describe the ways animals change as they grow. ● Compare and contrast different ways animals reproduce. ● Describe cloning as another example of asexual reproduction. ● Infer the importance of camouflage to survival. ● Recognize adaptations and explain how each benefits different animals. ● Compare and contrast inherited and learned behaviors. ● Describe ways animals can be trained to help people. ● Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment ● Apply scientific ideas to test a device that converts energy from one form to another ● Make observations to provide evidence that energy can be transferred from place to 	<ul style="list-style-type: none"> ● McGraw-Hill Science, Life Science Unit B <ul style="list-style-type: none"> ○ animal characteristics ● National Energy Education Development Project: Energy <ul style="list-style-type: none"> ○ Energy is present whenever there are moving objects, sound, light, or heat. When objects collide, energy can be transferred from one object to another, thereby changing their motion. ○ renewable and nonrenewable resources for energy production. ● FOSS kit: <ul style="list-style-type: none"> ○ Physics of Sound ● Develop students' understanding of the physics of sound. ● Develop students' abilities in technological design. ● Develop students' understandings about science and technology. ● Engineering Is Elementary Kit <ul style="list-style-type: none"> ○ Lighten Up: Designing a Lighting System ● McGraw-Hill Science, Unit F Light ● McGraw-Hill Science, Unit D Water

<p>place by sound, light, heat, and electric currents.</p> <ul style="list-style-type: none"> ● Develop students' abilities to do and understand scientific inquiry. <ul style="list-style-type: none"> -Ask and answer questions -Plan and conduct simple investigations. -Employ tools to gather data. -Use data to construct reasonable explanations. -Communicate investigations and explanations. -Understand that scientists use different kinds of investigations and tools to develop explanations using evidence and knowledge. ● Define a simple design problem reflecting a need or want that includes specified criteria for success and constraints on materials, time, or cost ● Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. ● Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. ● Understand colors of light. ● Describe visible light as a part of the electromagnetic spectrum. ● Compare the reflection and refraction of light. ● Explain why we see colors. ● Classify materials as transparent, translucent, or opaque. 	
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Social Studies

<u>Skills & Learning Objectives</u>	<u>Content</u>
<p>Five Themes of Geography</p> <ul style="list-style-type: none"> ● Understand the themes of geography and impact on how they impact way of life <ul style="list-style-type: none"> ● Location ● Place 	<p>Essential questions:</p> <ul style="list-style-type: none"> ● What is the study of geography? ● How does the environment shape how we live?

- Regions
- Movement
- Human/environment Interaction
- Understand how different landforms affect how people live and adapt to the environment
- Understand that Native Americans both shaped and adapted to their environment, creating thriving civilizations throughout the Americas
- Recognize that Native Americans thrived by creating diverse ways of life, adapting to the climate, resources, and other environmental factors
- Understand Native Americans developed rich cultural traditions, societies with complex economies, governments, languages, arts, and technologies
- Understand that trade spurred European explorers in the 15th and 16th centuries to seek new opportunities
- Recognize that Columbus's voyages led to a period of interaction and exchange among Europe, Africa, the Americas
- Understand the results and effects of Columbus's voyages
- Understand that immigrants leave their homelands due to political and economic problems and to seek economic opportunities and religious freedom
- Analyze the intended and unintended consequences of colonization of the Americas
- Understand that when people from different cultures first meet, there is cooperation, compromise, and conflict
- Recognize why Europeans and Native Americans often had different points of view
- Understand that the United States is divided into geographical regions
The Northeast:
- Understand that the Northeast has unique landforms, bodies of water, resources and weather
- Recall that the Northeast was the location of the founding of the United States
- Understand that immigrants were instrumental in the growth of the country and helped shape the culture and economy

- Why do people explore?
- Why do people leave their homelands?
- How does where we live affect where we are?

Text: **My World Social Studies, Building Our Nation**

- The First Americans
- Age of Exploration
- Settlements Take Root
- Regions: The Northeast
- Regions: The Southeast
- Regions: The Midwest
- Regions: The Southwest
- Regions: The Northwest

- Recognize the Northeast has more urban areas with higher population density than other regions

The Southeast:

- Understand that the Southeast has unique landforms, bodies of water, resources and wildlife
- Recognize the people of the Southeast adapt to the region's unique climate, including extreme weather
- Understand that the Southeast played an important role in the founding and growth of the U.S.
- Identify the many social and economic changes undergone in the Southeast since the Civil War

The Midwest:

- Understand that the Midwest has unique climate, landforms, bodies of water, resources
- Recognize how the Midwest became a transportation center of the country
- Understand how the Midwest's farmland and other resources attracted settlers which led to the growth of cities and factories

The Southwest:

- Understand that the Southwest has unique landforms, bodies of water, resources and wildlife
- Recognize the people of the Southwest adapt to the region's arid and semi-arid warm climate
- Understand the Southwest has a diversity of cultures that contributed to its history, including Mexican, Native American, and Spanish cultures
- Understand the Southwest was home to many Native American groups before explorers, missionaries, and settlers came to the region

The West:

- Understand the West has a variety of landforms, climates, and unique resources that have shaped the way of life of people who live there
- Understand the West was home to many

Native American groups before Spanish settlers arrived <ul style="list-style-type: none"> • Recognize the West has many ports and trades with countries that border the Pacific Ocean 	
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Religion

Note: In the fall of 2016, the Archdiocese of Boston released detailed Faith Formation Standards for use in all Archdiocesan schools. BSS is currently using these standards to evaluate the content and objectives of our current Religion curriculum to ensure alignment with these standards for Grade 4.

See the curriculum page of our website for the Faith Formation Standards.

Grade 5

Reading and Language

Objectives	BSS Difference
<ul style="list-style-type: none"> • Use correct conventions of standard English when writing and speaking • Use writing process: plan, draft, edit and revise written work • Use context for determining the meaning of unfamiliar words or multiple meaning words • Read with accuracy and fluency to support comprehension in literature and nonfiction texts 	Cross-curricular: All Saints Day Project Collins Program...Paragraph Unit; Persuasive Essays; 5 Paragraph 3 Point Essay; 4 Square Method; Many graphic organizers Mini Projects for Social Studies/short research projects

	<p>Many Task Cards for Reading Skills and Figurative Language</p> <p>Cross-curricular units: Social Studies with Language Arts; Creative Writing based on Social Studies</p> <p>Technology integration for teaching and learning</p>
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Literature	Informational Text
<ul style="list-style-type: none"> ● Find the main idea of a paragraph ● Find the main idea of a story/ longer selection ● Draw conclusions ● Make inferences ● Accurately quote from a source to support idea ● Determine causes and effects ● Analyze character and plot development ● Explain author's style and purpose ● Understand and analyze theme/ tone /mood...focus on poetry ● Identify/explain: symbolism, foreshadowing, satire, dramatic irony, similes, metaphors, personification, hyperbole, alliteration, allusion <p>Examples of grade level selections:</p> <p>"The Marble Champ" by Gary Soto "S.O.R. Losers" by Avi "The Abacus Contest" Pricilla Wu "Stray" by Cynthia Rylant "Class President" by Johanna Hurwitz "Dragon, Dragon" by John Gardener A variety of myths, folk tales and poems</p> <p>Novels: <i>Wonder</i> <i>Bridge to Terabithia</i> <i>Rules</i> <i>The Penderwicks</i> <i>Holes</i> <i>Roll of Thunder, Hear My Cry</i> <i>Crash</i> <i>Bloomability</i> <i>Al Capone Does My Shirts</i></p>	<ul style="list-style-type: none"> ● Find the main idea of a paragraph ● Find the main idea of a longer selection ● Determine important details ● Draw conclusions ● Distinguish between fact and opinion ● Accurately quote from a source to support idea ● Determine cause and effect ● Plot graphs ● Determine appropriate sources for research ● Provide list of resources <p>Resources: Building Our Country, Pearson My World, Growth of Our Country, Pearson</p>

<p><i>The Boy Who Saved Baseball</i> <i>The Egypt Game</i> <i>Walk Two Moons</i> <i>Surviving the Applewhites</i></p>	
<p>Vocabulary Acquisition and Use</p>	<p>Language: Understand, Edit for Grammar, Usage</p>
<ul style="list-style-type: none"> ● Determine the meaning of words and phrases in context ● Use glossaries or dictionaries to determine or clarify the meaning of words ● Clarify meaning of unfamiliar and multiple meaning words and phrases ● Build knowledge of synonyms, antonyms, homophones ● Begin to determine meaning of words using Latin roots and affixes <p>Resources:</p> <p>Sadlier Vocabulary Workshop...Blue Level</p>	<ul style="list-style-type: none"> ● Identify the parts of speech ● Understand the functions of words in sentences: subject, predicate, adjectives, adverbs, prepositions, direct object, indirect objects ● Diagram sentences ● Using verb tenses correctly <p>Resources:</p> <p>John Collins Writing Program 4-Square Writing Program</p>
<p>Language: Understand, Edit Mechanics</p>	<p>Writing</p>
<ul style="list-style-type: none"> ● Use correct capitalization, punctuation, and spelling ● Use commas, apostrophes, quotation marks ● Identify run-on sentences and fragments <p>Resources:</p> <p>John Collins Writing Program 4-Square Writing Program Many Task cards and Units on Punctuation, Capitalization, and Sentence structure.</p>	<ul style="list-style-type: none"> ● Expand, combine, or reduce sentences to improve meaning ● Eliminate run-ons and fragments in own work ● Use graphic organizers: venn diagrams, attribute webs, 4-Square organizer, story maps, T charts ● Summarize and paraphrase information ● Outline information ● Compose opinion pieces with clear point-of-view supported with reasons/evidence ● Compose informative/explanatory pieces to examine a topic and convey ideas and information clearly ● Develop topics with facts and details/ evidence/examples related to the topic ● Compose the 5 paragraph 3 point essay ● Write narratives of real or imaginary events ● Writing with dialogue ● Write a friendly letter ● Compose a How-To paragraph ● Compose a compare/contrast essay ● Use technology for short research projects <p>Resources:</p>

Math

Objectives	BSS Difference
<ul style="list-style-type: none">• Demonstrate fluency with multi-digit addition, subtraction, multiplication, and division• Apply an understanding of fractions and fraction models to represent the addition and subtraction of fractions with unlike denominators as equivalent calculations with like denominators• Develop fluency in calculating sums and differences of fractions, and make reasonable estimates of them• Use the meaning of fractions, of multiplication and division, and the relationship between multiplication and division to understand and explain why the procedures for multiplying and dividing fractions make sense• Develop understanding of why division procedures work based on the meaning of base-ten numerals and properties of operations.• Apply understandings of models for decimals, decimal notation, and properties of operations to add and subtract decimals to hundredths• Use the relationship between decimals and fractions, as well as the relationship between finite decimals and whole numbers, to understand and explain why the procedures for multiplying and dividing finite decimals make sense• Compute products and quotients of decimals to hundredths efficiently and accurately• Recognize volume as an attribute of three-dimensional space• Understand that volume can be measured by finding the total number of same-size units of volume required to fill the space without gaps or overlaps• Understand that a 1-unit by 1-unit by 1-unit cube is the standard unit for measuring volume• Students will decompose three-dimensional	<ul style="list-style-type: none">• Small group and pair work to encourage collaboration and peer teaching• Real life and cross curricular STREAM activities to extend and reinforce learning• Use of DynaMath Scholastic Magazine to promote everyday use of math concepts• Math games to encourage enjoyment in math

<p>shapes and find volumes of right rectangular prisms by viewing them as decomposed into layers of arrays of cubes</p> <ul style="list-style-type: none"> • Accurately measure necessary attributes of shapes in order to determine volumes to solve real-world and mathematical problems 	
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Science

<u>Skills & Learning Objectives</u>	<u>Content</u>
<p>Grade 5: Earth Science</p> <ul style="list-style-type: none"> • Understand Earth’s relationship to the Sun, Moon, and other stars that explain <ul style="list-style-type: none"> ○ (a) why people on Earth experience day and night ○ (b) patterns in daily changes in length and direction of shadows over a day ○ (c) changes in the apparent position of the Sun, Moon, and stars at different times during a day, over a month, and over a year. • Support an argument with evidence that the gravitational force exerted by Earth on objects is directed toward Earth’s center. • Obtain and combine information about ways communities reduce human impact on the Earth’s resources and environment by changing an agricultural, industrial, or community practice or process. • Test a simple system designed to filter particulates out of water and propose one change to the design to improve it. <p>Grade 5: Life Science</p> <ul style="list-style-type: none"> • Explore the process by which plants use air, water, and energy from sunlight to produce sugars and plant materials needed for growth and reproduction. <ul style="list-style-type: none"> ○ Describe the movement of matter among producers, consumers, 	<ul style="list-style-type: none"> • McGraw-Hill SCIENCE - Earth Science • FOSS kit: Soil, Rocks, and Landforms • McGraw-Hill SCIENCE - Life Science

decomposers, and the air, water, and soil in the environment to (a) show that plants produce sugars and plant materials

- (b) show that animals can eat plants and/or other animals for food, and
- (c) show that some organisms, including fungi and bacteria, break down dead organisms and recycle some materials back to the air and soil.

- Explore the parts and function of the eye.

Grade 5: Physical Science

- Explain common phenomena involving gases, and phase changes between gas and liquid and between liquid and solid.
 - Examples of common phenomena the model include adding air to expand a balloon, compressing air in a syringe, and evaporating water from a salt water solution.
- Measure and graph the weights (masses) of substances before and after a reaction or phase change to provide evidence that regardless of the type of change that occurs when heating, cooling, or combining substances, the total weight (mass) of matter is conserved.
- Observe and measure substances to describe characteristic properties of each, including color, hardness, reflectivity, electrical conductivity, thermal conductivity, response to magnetic forces, and solubility.
- Describe how each substance has a unique set of properties.
- Conduct an experiment to determine whether the mixing of two or more substances results in new substances with new properties (a chemical reaction) or not (a mixture).
- Use a model to describe that the food animals digest (a) contains energy that was once energy from the Sun, and (b) provides energy and nutrients for life processes, including body repair, growth, motion, body

- Pearson: Project STEM, Building a Super Sneaker

<p>warmth, and reproduction.</p> <p>Technological Systems</p> <ul style="list-style-type: none"> • Use informational text to provide examples of improvements to existing technologies (innovations) and the development of new technologies (inventions). • Recognize that technology is any modification of the natural or designed world done to fulfill human needs or wants. • Use sketches or drawings to show how each part of a product or device relates to other parts in the product or device.* 	<p>Using MacBooks and iPads to graph obtained data.</p>
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Social Studies

<u>Skills & Learning Objectives</u>	<u>Content</u>
<ul style="list-style-type: none"> • Understand social, political and economic differences can lead to conflict and some expected and unexpected results • Analyze how when change is forced, it is more difficult • Explain why people will fight for beliefs and way of life • Understand that in wars, people and the environment are affected • Explain the resources of the West and expansion of nation • Analyze that while U.S. grew through Western expansion, Native Americans struggled to survive • Describe how growth of nation led to U.S. as a world power • Understand how inventions and technology changed the way people worked and lived • Describe how immigrants to the U.S. in the late 19th and early 20th centuries contributed • Understand social and economic reform movements in response to growth of cities and industry • Explain how poverty and prejudice in the South led to migration of many African Americans 	<p>Essential questions:</p> <ul style="list-style-type: none"> • What is worth fighting for? • How did different groups experience the growth of the U.S.? • What are the costs and benefits of growth? • When does change become necessary? • How do people respond to good times and bad? • What is worth fighting for? <p>Text:</p> <p>My World, The Building of Our Country</p> <ul style="list-style-type: none"> • The French and Indian War • The Revolutionary War • The Formation of Our Government <p>My World Social Studies, The Growth of Our Country</p> <ul style="list-style-type: none"> • Civil War and Reconstruction

<ul style="list-style-type: none"> • Analyze women’s fight for social and political equality through today • Recognize issues of isolation vs. involvement in WWI • Understand collapsed economy and environmental crisis of Great Depression • Explain how New Deal created a larger role for government • Understand factors leading to U.S. involvement in WWII • Analyze anti-Semitism and Holocaust during WWII and world-wide ramifications 	<ul style="list-style-type: none"> • Expanding West and Overseas • Industry and Immigration • Struggle for Reform • Good times and Hardships/World War I • World War II • The Cold War • America Changes • Americans Today
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Religion

Note: In the fall of 2016, the Archdiocese of Boston released detailed Faith Formation Standards for use in all Archdiocesan schools. BSS is currently using these standards to evaluate the content and objectives of our current Religion curriculum to ensure alignment with these standards for Grade 5.

See the curriculum page of our website for the Faith Formation Standards.

Middle School - English Language Arts

Grade 6

Objectives

To develop critical thinkers who can take a position and develop arguments that support the position

To improve reading comprehension

To develop critical-reading skills the comprehension of fiction and nonfiction texts

To expand knowledge of literary style and devices for the purpose of interpreting literature

To develop writers who can express their ideas clearly and who approach writing confidently

To build vocabulary and language mechanics expertise through explicit instruction

To develop study skills so every student understands how he/she learns effectively and efficiently

To use electronic resources to enhance learning

Literature	Informational Text
<p><u>Texts - Prentice Hall <i>Literature</i> - Copper Level; grade-level Novels; misc. Supplemental Materials in various media</u></p> <p><u>Short Stories</u></p> <ul style="list-style-type: none">● Analysis and interpretation of fiction● Personal connections to the literature● Comparing literary works● Examine author's purpose and technique <p><u>Novels (not from the text)</u></p> <ul style="list-style-type: none">● Analysis and interpretation of fiction● Connections to current/historical events● Examine author's purpose and technique <p><u>Poetry</u></p> <ul style="list-style-type: none">● Analysis and interpretation of poems● Comparing poems● Examine author's purpose and technique <p><u>Drama</u></p>	<p><u>Nonfiction selections from Prentice Hall <i>Literature</i> - Copper Level; Scholastic Scope; misc. Supplemental Materials in various media</u></p> <p>Non-fiction selections and articles</p> <ul style="list-style-type: none">● Identification of main ideas and significant details● Identification of arguments and supporting evidence● Identification of author's bias● Discussion of source materials● <p><u>Background information (articles) on the novels, short stories, and plays and their author.</u></p>

<ul style="list-style-type: none"> • Analysis and interpretation of a play • Comparing literary works <p>Examining the features of different genres</p>	
Vocabulary Acquisition and Use	Language: Understand, Edit for Grammar, Usage
<p>Sadlier Vocabulary - Level B Membean.com - vocabulary Vocabulary from literature</p>	<p><u>Loyola Exercises in English</u></p> <ul style="list-style-type: none"> • Sentences - purpose, structure, and analysis (including diagramming) • Nouns • Verbs • Pronouns • Modifiers: adjectives and adverbs • Phrases and clauses • Punctuation Rules <p><u>Daily Language Workouts</u> - brief edit sessions for proofreading practice and review of rules.</p> <p><u>Collins method</u> of highlighting language mechanics errors in student writing so the student can make the corrections.</p>
Other	Writing
<p><u>Oral Presentations</u></p> <ul style="list-style-type: none"> • Recitation of a speech from <i>Romeo and Juliet</i> 	<ul style="list-style-type: none"> • Fiction and nonfiction summaries • Fiction and nonfiction narratives • Friendly letter • Essay about a literary character's traits that includes quotations from the text(s) that supports the student's opinion. • Theme essay • Grade 6 research project paper • Poems: haiku and couplets in iambic pentameter, simile and metaphor use, free verse to explore use of literary technique

Grade 7

Objectives
To develop critical thinkers who can take a position and develop arguments that support the position

To improve reading comprehension

To develop critical-reading skills the comprehension of fiction and nonfiction texts

To expand knowledge of literary style and devices for the purpose of interpreting literature

To develop writers who can express their ideas clearly and who approach writing confidently

To build vocabulary and language mechanics expertise through explicit instruction

To develop study skills so every student understands how he/she learns effectively and efficiently

To use electronic resources to enhance learning

Literature	Informational Text
<p><u>Short Stories</u></p> <ul style="list-style-type: none">● Analysis and interpretation of fiction● Personal connections to the literature● Comparing literary works● Examine author's purpose and technique <p><u>Novels</u></p> <ul style="list-style-type: none">● Analysis and interpretation of fiction● Connections to current/historical events● Examine author's purpose and technique <p><u>Poetry</u></p> <ul style="list-style-type: none">● Analysis and interpretation of poems● Comparing poems● Examine author's purpose and technique <p><u>Drama</u></p> <ul style="list-style-type: none">● Analysis and interpretation of a play● Comparing literary works <p>Examining the features of different genres</p>	<p><u>Reading Comprehension in Varied Subject Matter by Jane Ervin - Book 5</u> - short nonfiction selections to build and assess comprehension skills</p> <p><u>Select Works from Prentice Hall Literature - Bronze Level</u></p> <ul style="list-style-type: none">● "Rattle Hunt" by Marjorie Rawls● "From Barrio Boy" by● "I Am a Native of North America" by● "All Together Now" by Barbara <p>OR</p> <ul style="list-style-type: none">● "No Gumption" by Russell Baker● "From An American Childhood" by Annie Dillard● "The Night the Bed Fell" by James Thurber <p><u>Scholastic Scope</u> - various articles from the monthly periodical</p> <p><u>Texts</u></p>

	<ul style="list-style-type: none"> ● <i>Lincoln: A Photobiography</i> ● Selected readings on the Civil War that support the grade 7 research project. ● “Shakespeare and His World” - Prentice Hall Literature - Bronze Level
Vocabulary Acquisition and Use	Language: Understand, Edit for Grammar, Usage
<p>Sadlier Vocabulary Program - Level C Membean.com - vocabulary Vocabulary from fiction and nonfiction reading</p>	<p><u>Loyola Exercises in English*</u></p> <ul style="list-style-type: none"> ● Sentences - purpose, structure, and analysis (including diagramming) ● Nouns ● Verbs ● Pronouns ● Modifiers: adjectives and adverbs ● Phrases and clauses and conjunctions ● Punctuation Rules <p><u>Daily Language Workouts</u> - brief edit sessions for proofreading practice and review of rules.</p> <p><u>Collins method</u> of highlighting language mechanics errors in student writing so the student can make the corrections.</p> <p>*Topics are the same as Grade 6 curriculum but are covered in more depth.</p>
Other	Writing
<p><u>Oral Presentations</u></p> <ul style="list-style-type: none"> ● The Gettysburg Address ● Presentation of the research process and what was learned ● Recitation of a speech from <i>Twelfth Night</i> 	<p>Theme essay (<i>The Outsiders</i> and <i>To Kill a Mockingbird</i>)</p> <p>Opinion essay about a literary character and using the text to support it</p> <p>Compare and contrast essay</p> <p>Grade 7 research project on the Civil War</p> <ul style="list-style-type: none"> ● Formal outlining ● Argumentation writing <p>Writing poetry - couplets in iambic pentameter</p> <p>Short responses to literary questions</p> <p>Fiction and nonfiction summaries</p>

Grade 8

Objectives
To develop critical thinkers who can take a position and develop arguments that support the position
To improve reading comprehension
To develop critical-reading skills within the comprehension of fiction and nonfiction texts
To expand knowledge of literary style and devices for the purpose of interpreting literature
To develop writers who can express their ideas clearly and who approach writing confidently
To build vocabulary and language mechanics expertise through explicit instruction
To develop study skills so every student understands how he/she learns effectively and efficiently
To use electronic resources to enhance learning

Literature	Informational Text
<p>Fictional selections from Prentice Hall- Silver Level</p> <p><u>Short Stories</u></p> <ul style="list-style-type: none"> ● Analysis and interpretation of fiction ● Personal connections to the literature ● Comparing literary works ● Examine author's purpose and technique <p><u>Novels</u></p> <ul style="list-style-type: none"> ● Analysis and interpretation of fiction ● Connections to current/historical events ● Examine author's purpose and technique <p><u>Poetry</u></p> <ul style="list-style-type: none"> ● Analysis and interpretation of poems ● Comparing poems ● Examine author's purpose and technique <p><u>Drama</u></p> <ul style="list-style-type: none"> ● Analysis and interpretation of a play ● Comparing literary works 	<ul style="list-style-type: none"> ● <u>Nonfiction selections from Prentice Hall Literature -Silver Level</u> ● Articles from Commonlit.org and Newsela.com ● Background information (articles) on the novels, short stories, and plays and their author.

Examining the features of different genres	
Vocabulary Acquisition and Use	Language: Understand, Edit for Grammar, Usage
Membean.com - vocabulary Vocabulary taken from literature	<u>Elements of Language by Holt, Rinehart, Winston</u> <u>and other supplementary notes and materials</u> <ul style="list-style-type: none"> ● Sentences - purpose, structure, and analysis ● Nouns ● Verbs ● Pronouns ● Adjectives ● Adverbs ● Conjunctions ● Prepositions ● Punctuation Rules
Other	Writing
<ul style="list-style-type: none"> ● Presentation skills ● Generating discussion questions ● Participating in discussion ● Understanding/reading media (commercials, social media, webpages, etc.) 	<ul style="list-style-type: none"> ● Emphasis on the process of composition including editing and revising ● Use of various graphic organizers to guide pre-writing ● Literary response and analysis incorporating text evidence from multiple sources and citing ● Argument essay including counterclaim and counterpoints ● Grade 8 research paper ● Fiction and nonfiction narrative ● Exploration of poetry and prose by literary techniques

Middle School Math

Grade 6

Objectives

- Extend the operations with whole numbers, decimals, and fractions to estimating, comparing and ordering.
- Extend fraction concepts and uses of basic number theory
- Extend the study of Algebra to evaluating expressions, solving one-step equations and one-step inequalities.
- Introduce ratios, rates, and percents
- Introduce Integers and Rational Numbers
- Extend the understanding of polygons to finding their area of composite figures with rational number dimensions.
- Develop an appreciation of math as it applies to real world situations

Operations and Algebraic Thinking	The Real and Complex Number Systems
<ul style="list-style-type: none"> ● Estimate, order and compare decimals and fractions ● Add, subtract, multiply and divide decimals and fractions ● Use order of operations to simplify numerical expressions ● Use algebraic expressions to describe relationships ● Add, subtract, multiply and divide one-step equations involving whole numbers, decimals and fractions. ● Write and solve equations to solve problems ● Use divisibility rules, prime numbers, multiples and factors to solve problems ● Equivalent fractions and decimals and expressing decimals as terminating or repeating ● Write and simplify expressions using exponents ● Use properties of arithmetic to simplify expressions ● Solve problems involving ratios and rates ● Finding equivalent ratios, and rates to solve proportions ● Determining sensible units of customary and metric units of measure. ● Use ratios to convert customary and metric units of measure. ● Understanding the relationship between fractions, decimals and percents 	<ul style="list-style-type: none"> ● Use Integers, Rational Numbers, Opposites and Absolute Value to represent real world situations ● Use a number line to compare and order integers and rational numbers ● Introduce basic computations with integers ● Introduce square roots and perfect squares.

<ul style="list-style-type: none"> • Use percents to understand everyday situations 	
Statistics and Probability	Geometry
<ul style="list-style-type: none"> • Use ratios to determine the probability of an event • Determine the mean, median, mode and range in a set of data. • Collect, organize, display and interpret data using different types of graphs. 	<ul style="list-style-type: none"> • Identify points and parts of line and pairs of lines • Measure and classify angles • Identify and classify polygons • Identify parts of a circle • Use proportions to determine congruency and similarity • Identifying lines of symmetry • Finding perimeter and area of triangles and parallelograms • Identify three-dimensional figures • Finding the volume of prisms

Grade 7

Objectives
<ul style="list-style-type: none"> • Extend the operations of numbers to include integers and rational numbers • Extend solving equations to include integers, decimals and fractions • Extend the concepts of ratios, rates and proportions as they apply to various situations • Extend the solving of percent problems • Review the basic figures of geometry • Review statistical concepts and extend them to making inferences • Extend the concepts of ratios and percents to probability • Develop an appreciation of math as it applies to real world situations

Operations and Algebraic Thinking	The Real and Complex Number Systems
<ul style="list-style-type: none"> • Compare and order integers and rational numbers 	<ul style="list-style-type: none"> • Reinforce square roots and cube roots

- Using arithmetic properties to add, subtract, multiply and divide integers and rational numbers
 - Using the distributive property to simplify algebraic expressions
 - Evaluate algebraic expressions
 - Solving word problems leading to one-step and two-step equations and inequalities
 - Writing inequalities and graphing their solutions
 - Reinforcement of ratios, rates and unit rates
 - Write and solve proportions
 - Use rates and proportions to solve problems involving similar figures, maps and scale models
 - Determining proportional relationships
 - Expand the comparing, ordering and converting of fractions, decimals and percents
 - Solve percent problems using proportions and equations
 - Use percents to solve real world problems
 - Writing numbers in standard and scientific notation
- Accelerated Math**
- Identify the number of solutions to an equation
 - Identify and describe linear and nonlinear functions
 - Finding the slope of a line
 - Using a table and equation to graph a linear function
 - Write a function rule from words, tables and a graph
 - Compare the properties of two functions
 - Using properties of exponents to multiply and divide numbers in scientific notation

- Accelerated Math**
- Difference between rational and irrational numbers
 - Estimating square roots of non-perfect squares

Statistics and Probability

Geometry

- Gathering data about a population
- Making predictions and estimations about a population using data samples
- Classifying data and analyze surveys
- Comparing two populations
- Finding the theoretical probability of an event
- Finding the experimental probability of an event using simulations
- Using a sample space and the Counting Principle

- Review classifying angles and polygons and finding unknown angle measures.
- Analysis of the angles and sides of a triangle
- Find the area of parallelograms, triangles, trapezoids and irregular shapes
- Find the circumference and area of a circle
- Identifying three-dimensional solids
- Finding the surface area and volume of prisms and cylinders.

<ul style="list-style-type: none"> • Finding the probability of compound events • Finding the odds in favor and against an event <p style="text-align: center;">Accelerated Math</p> <ul style="list-style-type: none"> • Finding the probability of mutually exclusive and overlapping events
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<p style="text-align: center;">Accelerated Math</p> <ul style="list-style-type: none"> • Use Pythagorean Theorem to find the length of the hypotenuse in a right triangle • Converse of the Pythagorean Theorem • Demonstrate that two triangles are congruent • Graph translations, reflections and rotations • Determine rotational and line symmetry

Grade 8

Objectives
<ul style="list-style-type: none"> • Review and extend computing with integers, rational and irrational numbers • Review and extend solving equations involving multi-step • Introduction to linear and nonlinear functions • Extend the solving of percent problems and probability • Introduce algebraic expressions with exponents • Review graphing in the coordinate plane • Review and extend the application of ratios, rates, proportions and indirect measurement • Review and extend the properties of two-dimensional figures • Develop an appreciation of math as it applies to real world situations

Operations and Algebraic Thinking
<ul style="list-style-type: none"> • Use appropriate operations to solve problems involving integers and rational numbers • Review writing and solving equations including multi-step and variable on both sides • Write, solve and graph inequalities • Review the Distributive Property to simplify expressions • Review solving problems involving ratios, rates and proportions • Review real-world applications of proportions to scale models and indirect measure

The Real and Complex Number Systems
<ul style="list-style-type: none"> • Write and use numbers with exponents including scientific notation • Multiply and Divide Exponential expressions • Review finding the square root of perfect squares and cube roots of perfect cubes • Approximate the value of an irrational number • Review graphing points in a coordinate plane <p style="text-align: center;">Accelerated Math</p> <ul style="list-style-type: none"> • Classifying Polynomials

- Review comparing and ordering integers, percents, fractions and decimals
 - Identify proportional relationships
 - Identify linear and nonlinear functions
 - Finding the slope of a line
 - Graphing a linear function
 - Write a function rule from a table. graph and words
- Accelerated Math**
- Writing and Solving Compound Inequalities
 - Graphing and describing the shape of a quadratic, absolute value and exponential function
 - Determining the axis of symmetry and the maximum and minimum point of a quadratic function
 - Writing a function rule in the form of $f(x)$
 - Finding the domain and range for a function
 - Identifying a sequential arithmetic pattern and writing it in function notation
 - Writing and graphing a direct variation
 - Writing and graphing a linear function in slope-intercept form, point-slope form and standard form
 - Writing equations of parallel and perpendicular lines
 - Solving and graphing systems of equations and inequalities
 - Add and Subtract Polynomials
 - Factoring Polynomials
 - Multiply two binomials using the distributive property and FOIL
 - Finding the square of a binomial
 - Factoring Trinomials

Statistics and Probability

- Review theoretical and experimental probability
- Finding the probability of compound mutually exclusive and overlapping events
- Make and interpret frequencies and histograms

Geometry

- Use Pythagorean Theorem to find the length of the hypotenuse in a right triangle
- Translate, reflect, rotate and dilate figures in a coordinate plane
- Determining rotational symmetry
- Review finding area of geometric shapes
- Construct congruent angles and parallel lines using a compass and straightedge
- Review classifying three-dimensional figures
- Finding surface area and volume of

Middle School STEM Science Standards

6th Grade

Earth Science

- 5-ESS3-1: Communities reduce human impact on Earth's resources and environment
 - Use museum of science charles river
- 5-ESS3-2: Test simple system designed to filter particulates out of water - STREAM PROJECT
- 6-ESS2-3: Plates
- 7-ESS2-2: Construct & Explain based on evidence for how Earth's surface has changed
- 7-ESS3-2: Obtain and communicate information on how data from past geological events are analyzed for patterns to forecast the location and likelihood of future catastrophic events.
- 7-ESS3-4: Construct an argument supported by evidence that human activities and tech can mitigate the impact of increases in human population and per capita consumption of natural resources on the environment.
- 8-ESS2-1: Model to illustrate energy from Earth's interior drives convection in Earth's cycle
- 8-ESS2-5 & 2-6 Weather & Climate
- 8-ESS3-1: Earth's mineral and fossil fuel distribution

Life Science

- 7-LS1-4: Adaptations - peppered moth relative to reading in 4th grade
- 7-LS2-1: Abundant and scarce resources of organisms
- 7-LS2-2: Ecosystem interactions
- 7-LS2-3: Food webs & food chains
- 7-LS2-4: Disruption of ecosystems can lead to population shifts
- 7-LS2-6: Biodiversity
- 7-LS2-5: Evaluate competing design solutions for protecting an ecosystem (riverbank design)

Physical Science

- 7-PS3-6: Heat transfer models

- Convection in earth and atmosphere

7th Grade

Earth Science

- **6-ESS1-1a**: Develop a model of E-S-M systems lunar phases & eclipse
- **6-ESS1-5**: Graphical displays to illustrate Earth & solar system in galaxy

Life Science

- NONE

Physical Science

- 4-PS4-3: send encoding/decoding
- 6-PS2-4: Gravitational forces between objects are attractive
- 6-PS4-1: Diagram simple waves
- 6-PS4-2: Diagram and model light rays and mechanical waves
- 6-PS4-3: Encoding and decoding
- 7-PS2-3: Electric Charge - TECH?
- 7-PS2-5: Magnetic Objects - TECH?
- 7-PS3-1: Kinetic Energy, Mass, and Speed
- 7-PS3-2: Relative position
- 7-PS3-5: KE transfer
- 7-PS3-7: KE & PE relationship
- 8-PS2 - Motion and Stability

8th Grade

Earth Science

- **6-ESS1-4**: Analyze & Interpret Rock Layers and Index Fossils to determine relative age
- **8-ESS3-5**: Examine and interpret data to describe human activities in global temp

Life Science

- 6--LS1-1 Evidence all cells made of cells.
- 6--LS1-2 Cell parts
- 6-LS1-3 Evidence that body system interacts to carry out life functions

- 6-LS4-1: Analyze and interpret evidence from the fossil record to describe organisms through history
- 6-LS4-2: Construct an argument using anatomical structures to support evolutionary relationships among and between fossil organisms and modern organisms
 - Cross-curricular with theology
 - Be sure to have an intentional conversation on connection to our creation.
- LS1 - Molecules to Organisms: Structures & Process
- LS3 - Heredity: Inheritance and Variation of Traits

Physical Science

- 5-PS1-2: Measure and graph the weights of substances before or after a reaction
- 6-PS1-6: Plan and conduct exothermic and endothermic
- 6-PS1-7: Density
- 6-PS1-8: Pure substances
- 7 - PS3-3: Energy and heat transfer
- 7-PS3-4: Relationship among energy transfer with heat
- 7-PS3-5: KE Transfer
- 7-PS3-6: Model thermal energy transfer
- 8-PS1: Matter & Its Interactions

Middle School Social Studies

Grade 6

Skills & Learning Objectives	Content
FERTILE CRESCENT On a historical map locate: <ul style="list-style-type: none"> ● Tigris and Euphrates Rivers ● Sumer, Babylon, and Assyria as successive civilizations and empires in this region ● Explain why the region is sometimes called “the Fertile Crescent.” On a modern map of western Asia: <ul style="list-style-type: none"> ● Identify the modern countries in the region (Iraq, Iran, and Turkey). The growth of Mesopotamian civilizations:	<ul style="list-style-type: none"> ● The Fertile Crescent ● Ancient Egypt ● Ancient China ● Ancient Greece ● Ancient Rome

- Describe importance of irrigation, metalsmithing, slavery, the domestication of animals, and inventions such as the wheel, the sail, and the plow

ANCIENT EGYPT

On a historical map of the Mediterranean region locate:

- the Mediterranean and Red Seas
- the Nile River and Delta
- the areas of ancient Nubia and Egypt
- the locations of ancient Upper and Lower Egypt

On a modern map:

- Identify the modern countries of Egypt and Sudan

Describe the role of:

- pharaoh as god/king
- Dynasties
- the importance of at least one Egyptian ruler
- the Egyptian social pyramid
- the relationship of pharaohs to peasants, and the role of slaves in ancient Egypt

Summarize important achievements of Egyptian civilization

ANCIENT CHINA

On a historical map of East Asia, locate:

- Ancient China and trace the extent of its influence from 1600 BCE to 300 CE

On a modern map of East Asia, locate:

- The modern countries of China, Mongolia, North Korea, South Korea, and Vietnam

Describe the topography and climate of eastern Asia, including the importance of mountain ranges and deserts, and explain how geography influenced the development of Chinese complex societies.

Describe important economic, political, and

religious developments in early Chinese history and evaluate the ways in which they are similar to or different from the characteristics of societies in other regions of the world.

- the continuity of rule and encouragement of learning in the Shang and Zhou dynasties (c. 1600–256 BCE)
- the teachings of Confucius (551–479 BCE), including writings on ethics and good government, codes of proper conduct, and relationships between parent and child, friend and friend, husband and wife, and subject and ruler and the philosophy/religion of Taoism, emphasizing harmony of humanity and nature
- the First Emperor's unification of China in the short Qin Dynasty (221–206 BCE) by subduing warring factions, seizing land, centralizing government, imposing strict rules, and creating, with the use of slave labor, large state building projects for irrigation, transportation, and defense (e.g., the Great Wall) and his own tomb with life-size terracotta warriors
- important technologies of China such as bronze casting, silk and gunpowder manufacture
- China's role in trade across Asia and to and from Africa and Europe along the Silk Roads and the introduction of Buddhism in China starting c. 1st century CE

ANCIENT GREECE

On a historical map of the Mediterranean area, locate:

- Greece and trace the extent of its influence to 300 BC/BCE

On a modern map of the Mediterranean area, locate:

- Europe
- the Middle East
- the Indian subcontinent
- Locate England, France, Greece, Italy, Spain, and other countries in the Balkan peninsula, Crete, Egypt, India, the Middle

East, Pakistan, and Turkey.

Explain how the geographical location of ancient Athens and other city-states contributed to their role in maritime trade, their colonies in the Mediterranean, and the expansion of their cultural influence

Explain why the government of ancient Athens is considered the beginning of democracy and explain the democratic political concepts developed in Ancient Greece.

Compare and contrast life in Athens and Sparta

Describe the status of women and the functions of slaves in ancient Athens

Analyze the Persian Wars:

- Causes
- Course
- Consequences
- including the origins of marathons

Analyze the Peloponnesian Wars between Athens and Sparta

- Causes
- Course
- Consequences

Describe the rise of Alexander the Great and the spread of Greek culture.

On a historical map, identify:

- ancient Rome and trace the extent of the Roman Empire to 500 AD/CE

Explain how the geographical location of Ancient Rome contributed to the shaping of Roman society and the expansion of its political power in the Mediterranean region and beyond.

Explain the rise of the Roman Republic and the role of mythical and historical figures in Roman history.

Describe:

- the government of the Roman Republic
- its contribution to the development of democratic principles
 - separation of powers
 - rule of law
 - representative government
 - notion of civic duty

Describe the influence of Julius Caesar and Augustus in Rome's transition from a republic to an empire

Explain the reasons for the growth and long life of the Roman Empire.

Describe the characteristics of slavery under the Romans.

Determine the central ideas or information of:

- primary or secondary source
- provide an accurate summary of the source distinct from prior knowledge or opinions.
- distinguish among fact, opinion, and reasoned judgment in a text

Grade 7

Use map and globe skills learned in prekindergarten to grade five to interpret:

- different kinds of projections
- topographic, landform, political, population, and climate maps

Interpret geographic information from a graph or chart

- construct a graph or chart that conveys geographic information (e.g., about rainfall, temperature, or population size data)

Explain impact of:

- The tools of geography
- American consumption patterns
- Immigration and migration to the United States
- Urban Sprawl in the United States
- Spatial Inequality in Mexico City
- Supranational Cooperation in the European Union
- Life in the Sahara and Sahel and Adapting to a Desert Region
- Oil in Southwest Asia
- The Effects of Monsoons in Southeast Asia
- Mount Everest
- Research paper

- urban sprawl on people and the planet
- American consumption patterns
- migration on the lives of people and the character of places
- use of the resources of the rainforest
- valuable resources on a region
- effects of climate on a region
- major physical features on Earth

Explain what forces work for and against cooperation in the European Union.

Determine the central ideas or information of:

- primary or secondary source
- provide an accurate summary of the source distinct from prior knowledge or opinions.
- distinguish among fact, opinion, and reasoned judgment in a text

Grade 8

Students analyze the U.S. Constitution and Bill of Rights to understand the fundamental rights given to all American citizens

In an Experiential Exercise:

- Students take the role of Alexander Hamilton or Thomas Jefferson. In a talk-it-out debate, the students discuss key issues that divided Federalists and Republicans.

In a Response Group

- Students will re-create important events of U.S. expansion and then decide whether the nation's actions were justifiable.

In a Social Studies Skill Builder:

- students work with a partner to discover a variety of Mexicano contributions to the Southwest and how those contributions

- Government and Civics
- Constitution and Bill of Rights
- Early America
- Manifest Destiny and life in the west
- Mexicano contributions to the Southwest
- The worlds of North and South in the 1800s
- The Civil War
- Reconstruction
- Native Americans and the West
- The Immigrant experience in the U.S.
- The Progressive Era
- U.S. Imperialism
- U.S. and WWI
- Roaring 20s
- Great Depression
- New Deal
- WWII
- Research paper

have influenced life in the United States.

In a Visual Discovery:

- Students analyze and bring to life images depicting the different ways of life in the North and the South in the mid-1800s.

In an Experiential Exercise:

- Students will use primary sources to experience different aspects of the Civil War. They will also take on the role of soldiers and civilians to learn about how the war affected the people of America.

Students analyze primary source images to evaluate:

- how close African Americans came to full citizenship during Reconstruction

In a Problem Solving Groupwork activity, students create:

- a music video to illustrate how western settlement impacted the Nez Percé
- examine how settlers changed the West and impacted other American Indian groups.

In a Writing for Understanding activity, students create:

- scrapbooks illustrating what life was like for immigrants in the early 1900s

Progressive era leaders:

- evaluate whether progressives improved life in the United States
- Panel discussion

In a Social Studies Skill Builder:

- analyze political cartoons about U.S. actions in world affairs around the turn of the 20th century
- evaluate the differing viewpoints of those actions.

In a Visual Discovery activity:

- analyze and bring to life images depicting key events of the Roaring Twenties, the Great Depression, and New Deal

In a Problem Solving Group Work activity:

<ul style="list-style-type: none"> present radio broadcasts on the impact of World War II on eight social and ethnic groups in the United States 	
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Middle School Theology

	<u>Skills & Learning Objectives</u>	<u>Content</u>
Grade 6	<h3>Spirit of Truth- 6th Grade Theology Overview</h3> <p>THEME: SACRED SCRIPTURE</p> <p>I. Unit 1: What is Sacred Scripture?</p> <p style="margin-left: 20px;">A. Exploring Sacred Scripture with Sacred Art</p> <p style="margin-left: 20px;">B. Sacred Scripture: The Written Revelation of God</p> <p style="margin-left: 20px;">C. The Purposes of Scripture</p> <p style="margin-left: 20px;">D. The Use of Scripture at Holy Mass</p> <p style="margin-left: 20px;">E. Praying with Scripture: Lectio Divina</p> <p style="margin-left: 20px;">F. How to Use the Bible</p> <p>II. Unit 2: How is the Bible Different from Other Books?</p> <p style="margin-left: 20px;">A. Exploring Biblical Interpretation with Sacred Art</p> <p style="margin-left: 20px;">B. The Inspiration of Scripture and the Writing Styles of the Bible</p> <p style="margin-left: 20px;">C. How to Interpret Scripture: The Senses of Scripture</p> <p style="margin-left: 20px;">D. The Old and New Testaments</p> <p style="margin-left: 20px;">E. Salvation History is a Love Story between God and His People, Told through the Covenants</p> <p>III. Unit 3: The Early World of Genesis</p>	<p>Continuous focus:</p> <ul style="list-style-type: none"> Prayer The Liturgical Year Application to our lives <p>Textbook: Spirit of Truth, Sophia Institute for Teachers</p> <p>Bible: Old Testament study</p> <p>Diocesan program: "Created for Love- God's Plan for Life, Love, Relationships, and Marriage."</p> <p>Book and video clips</p> <p>Identity</p> <ol style="list-style-type: none"> Who am I? Discovering God's Gift Created in the Image and Likeness of God Created for Love God's Creation vs. Culture

	<ul style="list-style-type: none"> A. Exploring the Early World of Genesis with Sacred Art B. The Story of Creation C. Adam and Eve D. Cain and Abel E. Noah and the Great Flood <p>IV. Unit 4: The Chosen People</p> <ul style="list-style-type: none"> A. Exploring God's Covenant with the Chosen People with Sacred Art B. God's Chosen People C. God Calls Abraham D. Isaac E. Jacob F. Joseph <p>V. Unit 5: Exodus</p> <ul style="list-style-type: none"> A. Exploring the Exodus with Sacred Art B. The Exodus is the Central Saving Event of the Old Testament C. Moses and God's Call D. The Passover E. God Continues to Save Us from Sin: The Parting of the Red Sea and the Ten Commandments <p>VI. Unit 6: The Royal Kingdom, Exile, and the Prophets</p> <ul style="list-style-type: none"> A. Exploring the Royal Kingdom and the Prophets in Sacred Art B. Joshua, Judges, Samuel, and Saul C. The Davidic Covenant D. The Prophets of the Old Testament <p>VII. Unit 7: Jesus and the New Testament</p> <ul style="list-style-type: none"> A. Exploring Jesus as Priest, Prophet, and King with Sacred Art B. The New Testament Provides an Account of God's Savings Actions C. Jesus the Messiah D. Jesus Fulfills the Old Testament Role of Priest E. Jesus Fulfills the Old Testament Role of Prophet 	
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	<p>F. Jesus Fulfills the Old Testament Role of King</p> <p>G. The Paschal Mystery</p> <p>H. Jesus Makes a New Covenant with Us</p> <p>VIII. Unit 8: God with Us</p> <p>A. Exploring the Church through Sacred Art</p> <p>B. The Church is a Visible Sign of God's Presence</p> <p>C. The Four Marks of the Church</p> <p>D. The Precepts of the Church</p> <p>IX. Unit 9: Your Kingdom Come</p> <p>A. Exploring the Kingdom of Heaven with Sacred Art</p> <p>B. God and Time</p> <p>C. The End of Time: The Last Things</p> <p>D. The New Heavens and the New Earth</p>	
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Grade 7	<p>THEME: LIVING AS A DISCIPLE OF CHRIST</p> <p>I. Unit 1: Personal Growth</p> <p>A. Exploring Personal Growth with Sacred Art</p> <p>B. The Human Person, Made in the Image and Likeness of God</p> <p>C. Human Growth and the Purpose of Existence</p> <p>D. Physical and Sexual Growth</p> <p>E. Emotional and Intellectual Growth</p> <p>F. Social Growth</p> <p>G. Spiritual Growth</p> <p>H. Growth in Virtues and in the Gifts and Fruits of the Holy Spirit</p> <p>I. Challenges to Growth</p> <p>II. Unit 2: Jesus and the Gospel Message</p> <p>A. Exploring Jesus with Sacred Art</p> <p>B. Divine Revelation</p> <p>C. The Inspiration and Authorship of Scripture</p> <p>D. The Old Testament and New</p>	<p>Continuous focus:</p> <ul style="list-style-type: none"> ● Prayer ● The Liturgical Year ● Application to our lives <p>Textbook: Spirit of Truth, Sophia Institute for Teachers</p> <p><u>Diocesan program:</u> “Created for Love- God’s Plan for Life, Love, Relationships, and Marriage.” Book and video clips</p> <p>Living a Life of Love & Virtue</p> <ol style="list-style-type: none"> 1. Love vs. Lust 2. Character Building: Virtue vs. Sin 3. Truth vs. Lie
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	<ul style="list-style-type: none"> Testament E. The Stages of Gospel Formation and the Literary Aspects of the Gospels F. World of the New Testament G. The Incarnation H. Jesus' Life, Passion, Death, and Resurrection I. The Gospel of Matthew J. The Gospel of Mark K. The Gospel of Luke L. The Gospel of John <p>III. The Sacraments</p> <ul style="list-style-type: none"> A. Exploring the Sacraments with Sacred Art B. What is a Sacrament? C. Baptism: History and Celebration D. Baptism: Effects and Living the Sacrament E. Confirmation: History and Celebration F. Confirmation: Effects and Living the Sacrament G. Eucharist: History and Celebration H. The Eucharist: Effects and Living the Sacrament I. Penance and Reconciliation: History and Celebration J. Penance and Reconciliation: Effects of Living the Sacrament K. Anointing of the Sick: History and Celebration L. Anointing of the Sick: Effects of Living the Sacrament M. Holy Matrimony: History and Celebration N. Holy Matrimony: Effects and Living the Sacrament O. Holy Orders: History and Celebration P. Holy Orders: Effects and Living the Sacrament <p>IV. Unit 4: Prayer</p> <ul style="list-style-type: none"> A. Exploring Prayer with Sacred Art B. Prayer C. Prayer in Salvation History D. The Lord's Prayer E. Praying to the Father, to the Son, and to the Holy Spirit, in Communion with Mary, the Mother of God 	<p>4. God's Plan for Life, Love, & Relationships</p> <p>God's Call & My Response</p> <ol style="list-style-type: none"> 1. What is a vocation? 2. Types of Vocation: Holy Orders, Religious Life, Marriage, Single State
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	<p>F. Ways of Praying: The Liturgy G. Ways of Praying: Devotional Prayer H. Ways of Praying: Praying with Scripture I. Witnesses of Prayer: Mary and the Saints</p>	
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<p>Grade 8</p>	<p>THEME: THE COMMUNION OF THE FAITHFUL</p> <p>I. Unit 1: Personal Growth</p> <ul style="list-style-type: none"> A. Exploring Personal Growth with Sacred Art B. Image and Likeness C. Vocation of Love D. Society E. Relationships Build the Kingdom F. The Family in God’s Plan G. Friendships H. Social Responsibility I. God Loves Us and Calls us to be in Relationship with Him and the Church <p>II. Church History</p> <ul style="list-style-type: none"> A. The Nature and Mission of the Catholic Church B. Jesus to AD 100 History C. Jesus to AD 100: Witness of the Saints D. AD 100-500 History E. AD 100-500: Witness of the Saints F. AD 500-1000 History G. AD 500-1000: Witness of the Saints H. AD 1000-1500 History I. AD 1000-1500: Witness of the Saints J. AD 1500-1800 History K. AD 1500-1800: Witness of the Saints L. AD 1800- Present History M. AD 1800- Present: Witness of the Saints N. “To the End of the Age”: The Future of the Church 	<p>Continuous focus:</p> <ul style="list-style-type: none"> ● Prayer ● The Liturgical Year ● Application to our lives <p>Textbook: Spirit of Truth, Sophia Institute for Teachers</p> <p><u>Diocesan program:</u> “Created for Love- God’s Plan for Life, Love, Relationships, and Marriage.” Book and video clips</p> <p>God’s Call & My Response</p> <ol style="list-style-type: none"> 1. Healthy Relationships & Healthy Marriages 2. Family as the First Church <p>Freedom/Happiness</p> <ol style="list-style-type: none"> 1. Licence vs. Freedom 2. Caring for Body & Soul 3. God’s Love & Mercy in the Sacrament of Reconciliation 4. Inspired to Discern/Answer
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	<ul style="list-style-type: none"> O. The Universal Call to Holiness: Our Call to be Saints III. Morality: The Journey in Christian Living <ul style="list-style-type: none"> A. Exploring Morality with Sacred Art B. What is Morality? C. Freedom and Choice: The Human Person D. Conscience and our Obligation to Form it E. The 10 Commandments F. Jesus is the Model of Holiness G. Jesus' Teaching on the 10 Commandments H. Jesus Teaches us to Love I. Jesus Gives us the Beatitudes J. Elements of a Good Moral Decision K. The Process of Making a Good Moral Choice L. Temptation and the Reality of Sin M. Structure of Sin and Social Sin N. Justification, God's Mercy, and Grace O. Support for Moral Living: Personal Prayer and Openness to the Holy Spirit P. Support for Moral Living: Community, the Sacraments, and the Saints IV. Unit 4: The Citizen and the Government <ul style="list-style-type: none"> A. The Citizen and Government B. Just War V. Unit 5: God's Plan for Love and Marriage <ul style="list-style-type: none"> A. Exploring the Image of God with Sacred Art B. Male and Female: The Imago Dei C. Theology of the Body D. Expressions of Love E. The Sacrament of Marriage F. Offences Against Chastity and Marital Love, Part 1 G. Offences Against Chastity and Marital Love, Part 2 H. Friendship and Protecting Against Lust I. Resisting Temptation and Relying on God and His Grace 	<p style="text-align: center;">God's Call: Created for Love</p> <p style="text-align: center;">Commitment Ceremony</p>
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