



What your child will learn in Grade 2

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INSIDE

Math

Reading

Science

Social Studies

Encore Classes

Lower Merion School District ♦ 301 E. Montgomery Ave. ♦ Ardmore, PA 19003



Grade 2 Mathematics

	Concepts	Vocabulary	Numerical Fluency	Problem Solving
What your child will learn	<ul style="list-style-type: none"> • An understanding of the base-ten place value system • Strategies to solve addition and subtraction problems with totals to 100, including problems with unknowns in all positions • How to sort, classify, represent, and describe data as well as design and carry out a data investigation • Fractions as equal parts of a whole • How to identify, describe, compare, and sort two- and three-dimensional shapes • Linear measurement and elapsed time 	<ul style="list-style-type: none"> • Mathematical words from experiences and explorations of manipulatives • Mathematical terms associated with the concepts being taught • Relate informal language to mathematical language and symbols • Use of mathematical vocabulary in oral and written communication 	<ul style="list-style-type: none"> • Recall and apply basic addition and subtraction facts to 20 • Add and subtract two-digit and 3-digit numbers • Select addition or subtraction to solve problems involving two-digit and 3-digit numbers • Count on or break numbers apart to add two or more numbers up to a total of 45 • Employ various strategies to solve addition and subtraction problems 	<ul style="list-style-type: none"> • Interpret addition and subtraction story problems and interpret and solve subtraction and unknown change story problems with totals up to 45 • Use manipulatives, drawings, tools, and notation to show strategies and solutions • Investigate and solve real world problems • Apply basic problem-solving strategies in various contexts • Use logical reasoning
What your child will do	<ul style="list-style-type: none"> • Use concrete models to represent fractional parts of a set of objects and region • Practice telling time using digital and analog clocks • Use tables to represent change • Use a place value model and notation to represent and compare 3 digit numbers • Employ various strategies to add and subtract • Construct geometric shapes and identify their characteristics • Measuring length using standard units of measure 	<ul style="list-style-type: none"> • Translate informal language to mathematical language • Use mathematical vocabulary when engaged in partner, small group, or whole group discussions • Read and comprehend mathematical language • Use mathematical vocabulary in written communication when providing justification to a solution 	<ul style="list-style-type: none"> • Play games that require strategy and reinforce recall of basic math facts • Use alternate strategies to solve addition and subtraction problems • Use technology such as calculators/ computers 	<ul style="list-style-type: none"> • Skip count by 5s, 10s, and 100s to problem solve • Use tools such as real objects, manipulatives, and technology to solve problems • Apply reading comprehension strategies to facilitate understanding of word problems • Explain solutions to problems orally and in written form • Participate in small group activities that are open ended and allow for sharing

Grade 2 Mathematics

	Concepts	Vocabulary	Numerical Fluency	Problem Solving
What you'll see (Products)	<ul style="list-style-type: none"> • Use of manipulatives to develop concepts • Various strategies to solve addition and subtraction problems • Problems that require the application of mathematical concepts 	<ul style="list-style-type: none"> • Illustrations of mathematical terms • Graphic organizers to define and illustrate Words • Use of vocabulary in written explanations to problems 	<ul style="list-style-type: none"> • Improvement in basic fact recall • Problems solved using various strategies • Improved number sense 	<ul style="list-style-type: none"> • Written explanations and justifications of solutions • Application of problem-solving strategies to real life situations • Use of the problem solving process and strategies
How you can help	<ul style="list-style-type: none"> • Ask your child to explain what was learned in math today • Read literature that relates to mathematical concepts • Look for and identify geometric shapes in the child's environment • Estimate and measure out the amount of time required to complete a given activity • Cook with your child and allow them to measure ingredients • Point out the math in games, sports, music, shopping, etc. • Take advantage of opportunities that will reinforce the concept of a collection of coins 	<ul style="list-style-type: none"> • During homework ask, "Are there words in the directions or the problem that you do not understand?" or "Are there words that helped you solve the problem?" • Relate vocabulary words with real-world objects and experiences • Engage in conversations with your child regarding the current area of mathematical study • Ask your child to explain their mathematical reasoning when solving problems • Access vocabulary for each unit of instruction on the District Math E-Board and reinforce in conversations at home 	<ul style="list-style-type: none"> • Practice mental math skills while in the car, for example: What is $16-4$? (12) • Make addition and subtraction flash cards to practice fact recall • Play games that were taught in class • Remind your child to use the First in Math program at home to reinforce math facts and other important math concepts. • Provide opportunities for estimation in computation, and measurement (e.g., when shopping, cooking, traveling etc.) • Use district math E-Board to access websites that reinforce understanding of concepts and/or provide additional practice • Ask your child to explain strategies used in computation 	<ul style="list-style-type: none"> • During homework ask, "Is there anything that you already know that can help you work through the problem?" • Help your child become aware of how mathematics relates to our everyday lives • Find ways that show you enjoy math and solving problems not only for routine activities like cooking and shopping but also by playing number games and solving math puzzles • Read the home/school connection newsletters that preview the unit and provide valuable tips for helping your child

Grade 2 Reading

	Reading Comprehension	Reading Fluency
What your child will be taught	<ul style="list-style-type: none"> • Skills to read, understand, and respond to informational and narrative text • Skills to identify elements of a text, including main idea, key details, and components of a story • Skills to make connections between events, concepts, or steps in a procedure within a text • How to use various text features and search tools to locate key information • Structure of story – how beginning introduces the story and the ending concludes the action. • Lesson or moral of fables and folktales. • How reasons support specific points the author makes in a text. 	<ul style="list-style-type: none"> • Concepts of print • Alphabetic principle • Basic conventions • Grade level phonics and word analysis skills • Multiple strategies to decode unknown words (e.g., context clues, rereading, phonics) • Grade level high-frequency words • Grade level irregularly spelled words • Skills to read with appropriate rate and expression
What your child will do	<ul style="list-style-type: none"> • Compare and contrast ideas and characters within and between texts with focus on textual evidence • Identify the main idea of a multi paragraph text and the focus of specific paragraphs within the text • Read a balance of informational and narrative texts • Ask and answer who, what , where, when, why and how questions to demonstrate understanding of key details in a text • Explain how graphic representations contribute to and clarify a text • Determine the meaning of words and phrases as they are uses in grade level text (including multiple meaning words) • Take part in conversations by linking his/her comments to the remarks of others and asking and answering question to gather a deeper understanding of the topic. 	<ul style="list-style-type: none"> • Distinguish between long and short vowels in regularly spelled one-syllable words • Decode two syllable words with long vowels and with words with common prefixes and suffixes • Read grade level high-frequency words with inconsistent but common sound-spelling correspondences • Work toward the DIBELS fluency goal of 87 words per minute • Read on-level text orally with attention to accuracy, rate, expression, and understanding.

Grade 2 Reading

	Vocabulary	Writing
What your child will be taught	<ul style="list-style-type: none"> • Grade-appropriate words and phrases • Content words, multiple-meaning words, compound word relationships, and shades of meaning among closely related verbs and adjectives • Agreed-upon rules for classroom discussions in small/large learning groups • Word-learning strategies • Skills to use glossaries and dictionaries 	<ul style="list-style-type: none"> • Basic conventions of standard English grammar and spelling • Use of variety of words, phrases, and sentence types • Components of opinion pieces, including topic, opinion, supporting reasons, and conclusion • Components of informative writing, including facts and/or definitions • Components of narrative writing, including voice, sequence of events, and character development • Research processes • Editing processes • Writing in response to reading questions.
What your child will do	<ul style="list-style-type: none"> • Acquire and use grade-appropriate conversational, academic, and domain-specific words and phrases • Use knowledge of language and its conventions when speaking or listening • Participate in collaborative conversations about grade-level topics and texts with peers and adults, following agreed-upon rules for discussion • Independently determine the meaning of words and phrases in grade level texts using sentence level context clues and other word-learning strategies • Make real life connections between words and their use • Use glossaries, dictionaries, text features, and search tools to locate and interpret information 	<ul style="list-style-type: none"> • Write everyday in response to learning • Demonstrate a grade appropriate command of the conventions of standard English grammar and spelling • Write with clarity and focus, using a variety of words and phrases to appeal to the audience • Write opinion pieces, informative/informational texts, and narrative pieces • Participate in shared research and writing projects • Read several books on a single topic to produce a report • Strengthen writing by revising and editing with guidance from teachers and peers • Publish pieces of writing

Grade 2 Reading

	Reading Comprehension	Reading Fluency	Vocabulary	Writing
What you'll see (Products)	<ul style="list-style-type: none"> • Graphic organizers • Written responses to literature • Illustrations of story events 	<ul style="list-style-type: none"> • High-frequency word lists • Books with a variety of text and graphic features • Reading at home to increase fluency • Progression of reading levels throughout the year 	<ul style="list-style-type: none"> • Weekly word work (spelling/vocabulary words?) • Development of your child's knowledge of language and its conventions when speaking 	<ul style="list-style-type: none"> • Prewriting activities (drawing/graphic organizers) • Drafts, revisions, and edited pieces of writing • Finished pieces of writing • Published pieces of writing • Responses to literature • Producing, expanding and rearranging sentences
How you can help	<ul style="list-style-type: none"> • Provide a place to read on a daily basis • Read with your child and encourage your child to read to a younger sibling • Supply and read more non-fiction texts with your child • Talk to your child about what he/she is reading • Ask your child to describe characters and settings • Ask who, what, when, where, why and how questions about events in a story • Discuss graphic features such as photographs, maps, charts, etc. within a text • Take your child to the public library regularly • Take your child to bookstores when author visits occur • Encourage your child to use evidence in everyday discussions and disagreements 	<ul style="list-style-type: none"> • Read with your child daily • Have your child read aloud to you, a sibling, a pet, or any available listener • Store books in different rooms and in your car • Have your child practice reading familiar books often • Act out scenes from a favorite book, focusing on expression • Let your child see you read • Utilize reading development and curriculum-based websites [Starfall.com, Thinkcentral.com] 	<ul style="list-style-type: none"> • Help your child practice weekly words? • Ask your child to discuss the non-fiction topics he/she is studying • Ask questions that require your child to explain or describe • Read stories with your child which contain new and/or challenging vocabulary words • Use a dictionary at home • Play word-based games 	<ul style="list-style-type: none"> • Encourage your child to read his/her writing to you • Ask your child to elaborate on informative and opinion pieces he/she has written • Discuss events that could be written about in the future • Write notes to your child and ask for written responses • Encourage your child to write letters/notes to others • Buy a writing journal and encourage daily writing at home • Help your child type his/her writing • Praise your child's writing

Grade 2 Science

What your child will learn	<p>We live in a dynamic world where everything is in motion, or so it seems. But not everything is moving the same way. Some things move from one place to another. Other things rotate around and around. Still other things are stationary, stable for a time, balanced on a thin line between stop and go. Other objects move back and forth or vibrate. These are the global phenomena that students experience in the FOSS Balance and Motion Module.</p> <p>The FOSS Air and Weather Module provides experiences that heighten primary students' awareness, curiosity, and understanding of Earth's dynamic atmosphere and provides opportunities for young students to engage in scientific and engineering practices. Students explore the natural world by using simple instruments to observe and monitor change.</p> <p>The FOSS Plants and Animals Module provides experiences that heighten students' awareness of the way that plants and animals meet their basic needs. Students observe the structures of plants and discover ways to propagate new plants from mature plants (from seeds, bulbs, roots, and stem cuttings). They observe and describe changes that occur as plants grow, and compare classroom plants to those in the schoolyard. They design terrariums and provide for the needs of both plants and animals living together in the classroom.</p>

Grade 2 Science

What your child will do

In the **Balance and Motion** module, students will:

- Create and use representational models to demonstrate stable balanced systems.
- Construct and evaluate toys that demonstrate spinning, and explain how they operate.
- Design runways to control or change the motion of marbles.
- Communicate observations and compare stability and motion, using precise vocabulary.
- Plan and carry out investigations with sound and with magnetic force.
- Analyze and interpret observational data.
- Use reading strategies to comprehend nonfiction texts
- Write to demonstrate understanding of concepts.

In the **Air and Weather** module, students will:

- Discover properties of air by observing interactions of air with objects.
- Demonstrate that compressed air can be used to make things move.
- Construct parachutes, pinwheels, and kites, and observe how they interact with air.
- Use weather instruments, including a thermometer, an anemometer, and a wind vane, to measure air conditions.
- Observe and describe daily weather on a calendar; record observations using pictures, words, and data.
- Graph weather observations to look for patterns in local weather conditions, precipitation, and temperature throughout the seasons.
- Monitor and record the changing appearance of the Moon over a month.
- Use reading strategies to comprehend nonfiction texts
- Write to demonstrate understanding of concepts.

In the **Plants and Animal** module, students will

- Observe what happens when young ryegrass and alfalfa plants are cut near the soil surface.
- Compare structures and behaviors of different pairs of animals.
- Cut plant stems, place them in water or soil, and observe changes over time.
- Initiate the growth of a new plant from a bulb and from a root, and observe changes over time.
- Design and build a terrarium habitat that provides for the needs of plants and animals.
- Record observations of plants and animals, using drawing and writing.
- Use reading strategies to comprehend nonfiction texts
- Write to demonstrate understanding of concepts.

Grade 2 Science

What you'll see (Products)	<ul style="list-style-type: none">• Science Readers• Science Notebooks with recorded observations, drawings, diagrams and predictions• Science vocabulary• Math concepts• Home and School Connection activities• Family letters for each module• Safety Rules and Procedures
How you can help	<ul style="list-style-type: none">• Use family discussions to review concepts taught in school• Read the Family Letter that provides suggestions for follow-up activities at home• Do the Home and School Connection Activities noted in each of the modules• Read about Science with your child• Review and discuss the Science Notebook with your child• Visit FOSSweb with your child for additional engaging activities for parents and students• Listen to your child and engage him/her on topics that interest him/her• Visit the library and science museums

Grade 2 Social Studies

What your child will learn	<ul style="list-style-type: none">• Where we live<ul style="list-style-type: none">○ Communities○ How communities are alike and different○ How citizens contribute to their community• Geography and how geographic resources (e.g., maps, globes) are used to study places and regions
What your child will do	<ul style="list-style-type: none">• Participate in small and whole group discussions and collaborative work• Build specific grade level vocabulary and concepts• Use maps, globes, and other resources to study geography• Use reading strategies to comprehend fiction and nonfiction texts
What you'll see (Products)	<ul style="list-style-type: none">• Writing to demonstrate understanding of concepts• Graphic organizers, charts, graphs maps, and project to showcase learning
How you can help	<ul style="list-style-type: none">• Read with your child• Listen to your child and engage him/her on topics that interest him/her• Allow your child to do simple tasks to gain experience and confidence• Be there to guide and encourage your child to complete a task• Listen to and engage with your child on topics that interest him/her• Visit the library, museums, and historical sites• Encourage map reading on outings

Grade 2 Encore Classes

FLES (Foreign Language in the Elementary School)

What your child will learn	What your child will do	What you'll see and hear (products)	How you can help
Greetings	Use salutations in the target language.	<ul style="list-style-type: none"> • Songs • Posters • Dialogues • Technology-based projects • Graphic organizers • Role playing • Games in target language • Activity sheets • Online activities • Mini books • Oral presentations • School-wide activities 	<ul style="list-style-type: none"> • Become knowledgeable about the program. • Encourage your child to speak the target language outside of school. • Look for the target language and its culture in your own community. • Encourage your child to read in the target language. • Expose your child to a variety of media in the target language. • Volunteer and participate in school-wide language events. • Celebrate your child's success.
Basic Directions	Follow directions given by the teacher in the target language.		
Numbers 0 - 39	Identify and count numbers 0 – 39.		
Colors	Identify colors and use as descriptive adjectives.		
Shapes and Sizes	Identify shapes and describe using comparative adjectives.		
Feelings	Ask and answer how one is feeling.		
Family	List different members of a family.		
Animals	Identify pets and farm animals.		
Classroom Objects and Supplies	Name objects and supplies found in the classroom.		
Calendar and Weather	Ask and answer calendar related questions. Identify and describe the weather.		
Food	Identify various foods.		
Body Parts	Label basic body parts.		
Culture	Explore cultural components of countries where the target language is spoken.		

Grade 2 Encore Classes

	Music	Art	
What your child will learn	Students will explore rhythmic, melodic, and harmonic elements of music as well as tone color, form, and expressive elements in music. Additional standards of notation will be studied including sustained rhythms and further sub-divisions of the beat. A variety of tonalities including the pentatonic scale will be experienced by the students.	Your child will continue to learn about the design elements of line, shape and color and how they are used by a variety of cultures and many types of genre. They will learn about warm and cool colors and how they can express feelings in a work of art.	
What your child will do	Students will sing, play classroom instruments, and move to music. Students will continue to read and notate music. Students will listen to, and make musical decisions with appropriate vocabulary to analyze music. Students will have the opportunity to make connections between music and other disciplines, such as art, social studies, science, math, dance. Students will experience a variety of multicultural music.	Your child will explore a wide variety of media while creating drawings, paintings and sculptures. They will also use lines, shapes and colors to create visual textures and patterns.	
What you'll see (Products)	This grade level has the opportunity to perform vocally and instrumentally in classroom performances. Additionally, there are opportunities for students to perform publicly for the school community.	Your child's portfolio will show examples of both 2-dimensional and 3-dimensional artwork.	
How you can help*	Provide a variety of musical experiences including singing games, folk songs and age-appropriate listening. Encourage musical interests outside of school such as choral ensembles and music lessons. Sing a song or share an activity from Music class Foster musical appreciation by attending concerts, recitals, and other live music opportunities	You can help by practicing manipulative skills at home, reinforce key ideas learned and exposing them to art in your community. Contact your school for volunteer opportunities.	

Grade 2 Encore Classes

	Physical Education	
What your child will learn	<ul style="list-style-type: none"> • safe practices in physical activity settings • individual responsibility for safety during various activities • engage in physical activities that promote physical activity and health • good sportsmanship • the positive effects of regular participation in moderate to vigorous physical activity • changes in body responses during physical activity • likes and dislikes related to participation in physical activity • reasons why regular participation in physical activities improves motor skills 	<ul style="list-style-type: none"> • recognize positive and negative interactions of small group activities • how to recognize and use basic movement skills and concepts • recognize and describe the concepts of motor skill development using appropriate vocabulary • the function of practice • how to identify and use the principles of exercise to improve movement and fitness activities • know and describe scientific principles that affect movement and skills using appropriate vocabulary • how to recognize and describe game strategies using appropriate vocabulary
What your child will do	<ul style="list-style-type: none"> • participate in all aspects of physical education class to improve physical fitness and health • follow safe practices during physical activities • engage in individual, small group, team and whole group activities • practice skills taught during physical education class • use teacher feedback to improve physical fitness and practice skills taught during physical education class. 	
What you'll see (Products)	<ul style="list-style-type: none"> • development of motor skills such as running, hopping, jumping, skipping, sliding, galloping • develop confidence • acquire an appreciation for physical activities • develop cooperative skills 	
How you can help	<ul style="list-style-type: none"> • promote healthy lifestyle choices in relation to nutrition, fitness, hygiene, sleep etc. • visit your local community centers to become involved in activities • advocate to increase active play time and reduce screen time 	

Grade 2 Guidance / Holistic Supports

Second Step

What your child will learn	What your child will do	What you'll see and hear (products)	How you can help
Unit 1- Skills for Learning	1. Being Respectful 2. Focusing Attention and Listening 3. Using Self-Talk 4. Being Assertive	<ul style="list-style-type: none"> Identify respectful behavior in themselves and others Determine respectful responses to scenarios Identify examples of focusing attention Identify examples of listening Apply focusing-attention and listening skills in the context of a fame in response to scenarios Identify classroom distractions Demonstrate using self-talk in response to scenarios Demonstrate assertive communication skills in response to scenarios Determine which adult to ask assertively for help in response to scenarios 	<ul style="list-style-type: none"> Home links are simple, fun activities for you and your child to complete together. They are a great way for you to understand what your child is learning and for your child to show you what they know. Make sure to join www.secondstep.org with activation key for your child's grade level. 2nd grade activation key is SSP2 FAMI LY72
Unit 2: Empathy	5. Identifying Feelings 6. Learning More About Feelings 7. Feeling Confident 8. Respecting Different Preferences 9. Showing Compassion 10. Predicting Feelings	<ul style="list-style-type: none"> Name a variety of feelings Distinguish between comfortable and uncomfortable feelings Use physical, verbal, and situational clues to determine what others are feeling Use physical, verbal, and situational clues to determine what others are feeling Label their own feelings as the same as or different from others' feelings Identify physical and situational clues that indicate the feeling of confidence Detect when their own and others' feelings change Determine what others are feeling using physical, verbal, and situational clues Label their own preferences as the same as or different from others' preferences Determine what others are feeling using physical, verbal, and situational clues Identify ways to show compassion for others in response to scenarios Predict others' feelings in response to scenarios Offer possible reasons for others' actions and feelings in response to scenarios 	

Grade 2 Guidance / Holistic Supports

Second Step

What your child will learn	What your child will do	What you'll see and hear (products)
Unit 3: Emotion Management	11. Introducing Emotion Management 12. Managing Embarrassment 13. Handling Making Mistakes 14. Managing Anxious Feelings 15. Managing Anger 16. Finishing tasks	<ul style="list-style-type: none"> • Identify physical clues that can help them name their own feelings • Identify the first two Calming-Down Steps • Demonstrate first two Calming-Down Steps in response to scenarios • Demonstrate correct belly-breathing technique • Use belly breathing to calm down in response to scenarios • Generate positive self-talk they can use to calm down in response to scenarios • Use positive self-talk to calm down in response to scenarios • Use counting to calm down in response to scenarios • Use assertive communication skills to get what they want or need in response to scenarios • Identify situations that require the use of the Calming-Down Steps • Demonstrate using the Calming-Down Steps in response to scenarios • Use positive self-talk to stay focused and on task in response to scenarios
Unit 4: Problem Solving	17. Solving Problems, Part 1 18. Solving Problems, Part 2 19. Taking Responsibility 20. Responding to Playground Exclusion 21. Playing Fairly on the Playground 22. Reviewing Second Step Skills	<ul style="list-style-type: none"> • Recall the first Problem-Solving Step • Identify and say a problem in response to scenarios • Recall the first two Problem-Solving Steps • Generate several solutions for a given problem in response to scenarios • Determine if solutions are safe and respectful • Recall the Problem-Solving Steps • Apply the Problem-Solving Steps to scenarios about conflicts with friends • Demonstrate accepting responsibility for their actions by admitting, apologizing, and offering to make amends in response to scenarios • Recall the Problem Solving Steps • Apply the Problem Steps to scenarios that involve playground problems, such as students being left out intentionally • Apply the Problem Steps to scenarios that involve playground conflicts that arise during games • Recall Second Step skill learned • Identify Second Step skills in a story • Relate personal examples of skill use

Grade 2 Guidance / Holistic Supports

No Place for Hate

What your child will learn	What your child will do	What you'll see and hear (products)	How you can help
<ul style="list-style-type: none">The No Place for Hate program was developed by the Anti Defamation League to organize communities to participate in projects that encourage an awareness of differences as well as to encourage acceptance	<ul style="list-style-type: none">To appreciate individual and group differences.To have honest and respectful conversations and interactions in order to develop connections with other students and school staff	<ul style="list-style-type: none">The No Place for Hate® campaign empowers schools to create projects to help children to learn about the differences of others and to work together to build a community where everyone can feel safe and happy at school	<ul style="list-style-type: none">At home, you are encouraged to continue the discussion about diversity and to foster a sense of all belonging in the Lower Merion School District