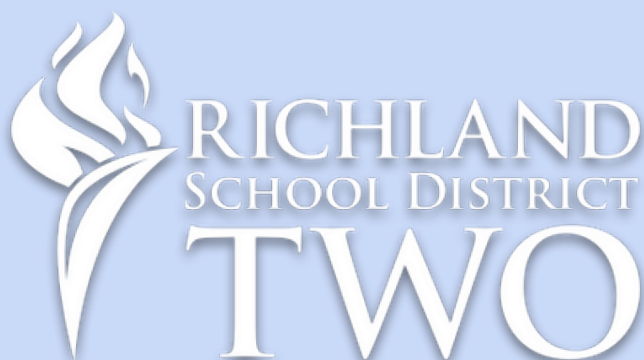




# SUMMER ENRICHMENT ELEMENTARY



## Summer Resources: Fun for Math- Kindergarten- 2nd Grade Richland School District Two

### Family Friendly Standards for Elementary School Mathematics -SC Education Oversight Committee

Kindergarten- [English](#) [Spanish](#) First Grade- [English](#) [Spanish](#) Second Grade- [English](#) [Spanish](#)

**Quantile® Math@Home** is a website full of free tools and family-friendly activities to support your child's mathematics learning. With Math@Home, you can work with your child to practice specific mathematical skills and concepts at the right level of difficulty.



**Check out this Greg Tang math challenge for the summer. You can click these [game boards](#) for more information!**

Suggestions for Math Books for Kindergarten	Suggestions for Math Books for First Grade
<i>Shape, Shape, Shapes</i> by Tana Hoban <i>The Secret Birthday Message</i> by Eric Carle <i>Ten Black Dots</i> by Donald Crews <i>Every Buddy Counts</i> by Stuart Murphy <i>The Button Box</i> by Margarette S. Reid	<i>Alexander, Who Used to be Rich Last Sunday</i> by Judith Viorst <i>100 Days of School</i> by Trudy Harris <i>The Button Box</i> by Margarette S. Reid <i>The Doorbell Rang</i> by Pat Hutchins <i>98, 99...Ready or Not, Here I Come!</i> by Teddy Slater <i>Super Sand Castle Saturday</i> by Stuart Murphy
Suggestions for Math Books for Second Grade and Third Grade	
<i>Amanda Bean's Amazing Dream</i> by Cindy Neuschwander <i>The Greedy Triangle</i> by Marilyn Burns <i>Measuring Penny</i> by Loreen Leedy <i>Math for All Seasons</i> by Greg Tang	<i>The \$1.00 Word Riddle Book</i> by Marilyn Burns <i>Fraction Fun</i> by David Adler <i>The Best of Times</i> by Greg Tang <i>Pigs Will be Pigs: Fun with Math and Money</i> by Amy Axelrod

### Websites K-5

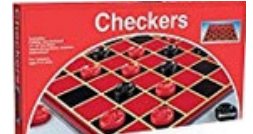
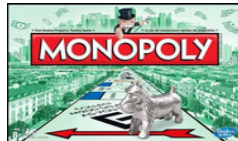
<http://illuminations.nctm.org/Games-Puzzles.aspx>  
<https://www.funbrain.com/math-zone>  
<http://www.aplusmath.com/>  
<http://pbskids.org/cyberchase/math-games/>  
<http://www.gregtangmath.com/>  
<http://www.coolmath4kids.com/>  
<http://bedtimemath.org>  
<http://www.figurethis.org/index.html> - (Multiple Language)  
<http://xtramath.org/> - (Multiple Language)

### Apps You Can look up on your devices Grades K-2

A Number Math App Time to Learn Bedtime Math (Multi Language) Everyday Mathematics -Addition Top it Domino Math Math Word Problems	Know Your Math Facts Kindergarten Math: 10 Frame Fill Number Bond Blaster Number Rack Fast Facts Addition Fast Fact Subtraction
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### Games that Promote Mathematical Thinking

Do you have board games or playing cards around the house? Playing games such as these rely on skills necessary for math. Click on the link to find out how you might use playing cards to strengthen math skills. [Top It Card Games](#)



## Activities

These activities will help **SC Kindergarten students** reinforce their math skills outside of the classroom.

- Draw and label a picture of your family from tallest to shortest.
- Count the number of steps it takes to get from your front door to the refrigerator. Represent this number.
- A full case of juice boxes has 10 boxes. There are only 3 boxes in this case. How many juice boxes are missing? Write your answer in a complete sentence. *There are 7 juice boxes missing.*
- Three dogs were playing in the park. One more dog came to play. How many dogs are playing in the park? *There are 4 dogs playing in the park.*
- Read *Shape, Shape, Shapes* by Tana Hoban. Walk outside. What shapes do you see? Draw all the shapes you see.
- Look at some of your toys. Try to sort them into groups. How many are in each group?
- How long is your room? Measure with blocks or toys. Measure with your feet. Which was more? Which is less?
- Use sidewalk chalk to write all the numbers (in order) that you can. (Use paper and pencil if you do not have chalk.)
- Toss ten pennies. How many heads? How many tails? Try again! Did you get the same result?

These activities will help **SC First Grade students** reinforce their math skills outside of the classroom.

- Gather a handful of coins with a value less than \$2.00. Calculate the total.
- If you save two cents everyday in the month of June, how much money will you have saved at the end of the month?
- Take up to 20 pennies. Put some in each hand. Show 1 hand and have an adult figure out how many are hiding. Switch.
- Read *100 Days of School* by Trudy Harris
- Find 5 different ways to reach 100. Record each way.
- Go on a Shape Hunt around your home. Look for items shaped like a square, rectangle, and a triangle. Draw and label the items.
- Sort the laundry into categories (owner, color or item type). Make a bar graph and compare the categories. How many more? Less?
- Roll two dice and practice addition and subtraction by adding or subtracting the two numbers.

These activities will help **SC Second Grade students** reinforce their math skills outside of the classroom.

- 100 is the answer, what could the question possibly be? Challenge yourself to think of more questions.
- Pia was having a party. She put 10 stickers in each party bag. She made 12 bags with ten stickers in each one. How many stickers total were in her 12 bags?
- Play Hidden Picture Addition. [www.aplusmath.com](http://www.aplusmath.com)
- Ask an adult to teach you a card trick. Practice the trick and try it out on a friend . What math was involved?
- Plant a seed. Will it grow to be about 12 inches or 12 feet? How do you know? Measure and record the height twice a week to keep track of how high it grows.
- Play a strategy game like Othello or Checkers. Did your strategy work? Will you try a different strategy the next time you play?
- $500+60+8$  is a number. Write it as a three-digit number. Write its name in words. Draw a picture to represent the number. Locate it on the number line.
- You have \$1.50 in your pocket. Make a list of 10 different combinations of coins you could have in your pocket.



## Summer Resources: Fun for Math- Grades 3-5 Richland School District Two

### Family Friendly Standards for Elementary School Mathematics - SC Education Oversight Committee

Third Grade- [English](#) [Spanish](#)

Fourth Grade- [English](#) [Spanish](#)

Fifth Grade- [English](#) [Spanish](#)

**[Quantile® Math@Home](#)** is a website full of free tools and family-friendly activities to support your child's mathematics learning. With Math@Home, you can work with your child to practice specific mathematical skills and concepts at the right level of difficulty.



**Check out this Greg Tang math challenge for the summer. You can click these game boards for more information!**

### Suggestions for Math Books for Second Grade and Third Grade

*Amanda Bean's Amazing Dream* by Cindy Neuschwander  
*The Greedy Triangle* by Marilyn Burns  
*Measuring Penny* by Loreen Leedy  
*Math for All Seasons* by Greg Tang

*The \$1.00 Word Riddle Book* by Marilyn Burns  
*Fraction Fun* by David Adler  
*The Best of Times* by Greg Tang  
*Pigs Will be Pigs: Fun with Math and Money* by Amy Axelrod

### Suggestions for Math Books for Fourth and Fifth Grade

*Counting on Frank* by Rod Clement  
*A Grain of Rice* by Helena Clare Pittman  
*Sideways Arithmetic from Wayside School* by Louis Sachar  
*Divide and Ride* by Stuart Murphy  
*Lemonade for Sale* by Stuart Murphy  
*A Gebra Named Al* by Windy Isdell  
*Math Curse* by Jon Scieszka  
*Chasing Vermeer* by Blue Balliett  
*Sir Cumference & the Dragon of Pi* by Cindy Neuschwander

*Sir Cumference & the First Round table* by Cindy Neuschwander  
*Sir Cumference & the Great Knight of Angleland* by Cindy Neuschwander  
*Sir Cumference & the Sword in the Cone* by Cindy Neuschwander  
*Number Devil: A Mathematical Adventure* by Hans Magnus Enzensberger  
*Guinness Book of Records* by Time Inc.  
*Mathematicians are People Too* by Luetta Reimer & Wilbert Reimer

### Websites K-5

<http://illuminations.nctm.org/Games-Puzzles.aspx>  
<http://www.funbrain.com/>  
<http://www.aplusmath.com/>  
<http://pbskids.org/cyberchase/math-games/>  
<http://www.gregtangmath.com/>  
<http://www.coolmath4kids.com/>  
<http://bedtimemath.org>  
<http://www.figurethis.org/index.html> - (Multiple Language)  
<http://xtramath.org/> - (Multiple Language)

### Apps You Can look up on your devices Grades 3-5

Everyday Mathematics, - Addition Top It Everyday Mathematics, - Beat the Computer, - Multiplication Everyday Mathematics, - Divisibility Dash Everyday Mathematics, - Equivalent Fractions Wuzzit Trouble Sushi Monster Deep Sea Duel	Pizza Fractions 1 My Times Tables Tony's Fraction's Pizza Shop Pearl Diver Lobster Diver Factor Samurai Fraction App by tap to Learn Dare to Share Fairly Long Division Touch Math Ninja HD Quick Math
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## Games that Promote Mathematical Thinking

Do you have board games or playing cards around the house? Playing games such as these rely on skills necessary for math. These skills include counting, categorizing, building, logical reasoning, computing, spatial skills, recognizing patterns, etc. Click on the link to find out how you might use playing cards to strengthen math skills.

[Top It Card Games](#)



## Activities

For more activities click on the blue link or type in the address shown

These activities will help **SC Third Grade students** reinforce their math skills outside of the classroom.

- Which is larger,  $\frac{2}{3}$  or  $\frac{3}{4}$ ? How do you know? Prove it.
- Masha had 120 stamps. First, she gave her sister half of the stamps and then she used three to mail letters. How many stamps does Masha have left?
- Try a new game at [www.funbrain.com](http://www.funbrain.com). Challenge yourself.
- Get a menu from a restaurant and add up what it would cost for your family to eat there.
- When rounding to the nearest ten, what is the smallest whole number that will round to 50? The largest? How many different whole numbers round to 50?
- Practice math facts in a fun way at the website [www.multiplication.com](http://www.multiplication.com). What games did you play?
- Compare the fractions below. Use the symbols  $>$ ,  $=$ , or  $<$  to record your comparisons. Draw a picture to illustrate your answer.  $\frac{2}{6}$  and  $\frac{5}{6}$      $\frac{1}{2}$  and  $\frac{1}{3}$

These activities will help **SC Fourth Grade students** reinforce their math skills outside of the classroom.

- Write three facts about the number 28. Is this number prime or composite? How do you know? Round this number to the nearest 10.
- A lawn water sprinkler rotates 65 degrees and pauses. It then rotates 25 more degrees in the same direction. What is the total degree rotation of the sprinkler? To cover a full 360 degrees, how many more degrees will it move?
- Read *A Grain of Rice* by Helena Pittman. Calculate how many grains of rice she will receive on day 18. How many will she have altogether?
- Visit the website [www.multiplication.com](http://www.multiplication.com). Choose some activities to have fun practicing multiplication. Record choices.
- Solve the riddle: I have 5 in the tenths place. I have 7 in the thousandths place. I have 4 in the ones place. I have 2 in the hundredths place. What decimal am I? Write your own riddle.
- Go to <http://www.gregtangmath.com/>. Choose some worksheets to complete.
- With a partner take turns scooping coins from a cup. Write the total in dollars and cents using decimal notation. Compare totals using  $<$ ,  $>$ , or  $=$ . Take ten turns.
- Skip count by 5's starting at 1. What patterns do you notice? Explain why you think these patterns are happening.

These activities will help **SC Fifth Grade students** reinforce their math skills outside of the classroom.

- With a partner, put 5 cards face up. Turn a 6th card, to be a Target Card. Each player uses the cards to make the Target Card #. All 5 cards must be used only once. Use  $+$ ,  $-$ ,  $\times$ , and/or  $\div$ .
- Use four 4's to create problems that will equal 1-12. Remember to use the correct order of operations to solve your problems: Parentheses, Exponents, Multiply or Divide, Add or Subtract.
- 286,489 is an odd number. How many times greater is the 8 in the ten thousands place than the 8 in the tens place? Explain your thinking.
- .75 is the answer. What could the question possibly be? Challenge yourself to think of more questions.
- Express the number 50 in at least 25 different ways. Use all 4 operations and include fractions and decimals.
- Write an expression for:  
Add 2 and 4 and multiply the sum by 3. Next, add 5 to that product and double the result.
- Try a new activity at [www.coolmath4kids.com](http://www.coolmath4kids.com). Challenge yourself. What did you choose to do?
- On Saturday  $\frac{3}{4}$  of a 5th grade class went to see a new movie. If  $\frac{1}{2}$  of the class went to the afternoon session, what fraction of the class went to the evening session?





## Richland Two K-5 Summer Resources/Science

The following lists will provide you with a variety of ways to keep your young scientist engaged in learning and exploring science, engineering, and technology throughout the summer.

### Recommended Books by Grade

Kindergarten	1st Grade	2nd Grade
<ul style="list-style-type: none"> <li>• Aliko. <i>My Five Senses</i></li> <li>• Aliko. <i>My Visit to the Zoo</i></li> <li>• Fowler, Allan. <i>What Magnets Can Do</i></li> <li>• Gibbons, Gail. <i>Seasons of Arnold's Apple Tree</i></li> <li>• Hall, Zoe. <i>The Surprise Garden</i></li> <li>• Hickman, Pamela. <i>A Seed Grows</i></li> <li>• Kingfisher Publishing. <i>Animal Babies on the Farm</i></li> <li>• DK Publishing. <i>Growing Things (Play and Learn)</i></li> <li>• DK Publishing. <i>See How They Grow: (Frog, Duck, Owl)</i></li> <li>• Pascoe, Elaine. <i>Nature Close-Up - Slime, Mold and Fungi (Board book)</i></li> <li>• Murphy, Patricia J. <i>Push and Pull</i></li> <li>• Stille, Darlene R. <i>Push and Pull, Fast and Slow</i></li> </ul>	<ul style="list-style-type: none"> <li>• Carle, Eric. <i>The Tiny Seed</i></li> <li>• Fowler, Allan. <i>So That's How the Moon Changes Shape!</i></li> <li>• Gibbons, Gail. <i>Sun Up, Sun Down</i></li> <li>• Heller, Ruth. <i>The Reason for a Flower</i></li> <li>• Trumbauer, Lisa. <i>All About Sound</i></li> <li>• Woodman, Nancy. <i>Dirt: Jump Into Science</i></li> <li>• Swinburne, Stephen. <i>Guess Whose Shadow?</i></li> <li>• Dorros, Arthur. <i>Me and My Shadow</i></li> <li>• Hoban, Tana. <i>Shadows and Reflections</i></li> </ul>	<ul style="list-style-type: none"> <li>• Cole, Joanna. <i>The Magic School Bus Gets Baked in a Cake: A Book about Kitchen Chemistry</i></li> <li>• Fowler, Alan. <i>It Could Still Be Water</i></li> <li>• Ganeri, Anita. <i>From Caterpillar to Butterfly (How Living Things Grow)</i></li> <li>• Heiligman, Deborah. <i>From Caterpillar to Butterfly</i></li> <li>• Pfeffer, Wendy. <i>From Tadpole to Frog</i></li> <li>• Rosinsky, Natalie M. <i>Magnets: Pulling Together, Pushing Apart</i></li> <li>• Schreiber, Anne. <i>Magnets</i></li> <li>• Dussling, Jennifer. <i>Looking at Rocks</i></li> </ul>
3rd Grade	4th Grade	5th Grade
<ul style="list-style-type: none"> <li>• Aliko. <i>Fossils Tell of Long Ago</i></li> <li>• Aardema, Verna. <i>Bringing the Rain to Kapiti Plain</i></li> <li>• Hewitt, Sally. <i>All Kinds of Habitats</i></li> <li>• Hewitt, Sally. <i>Heat</i></li> <li>• Loewer, Peter and Jean. <i>The Moonflower</i></li> <li>• Pellant, Chris. <i>Smithsonian Handbooks: Rocks &amp; Minerals</i></li> <li>• Silver, Donald. <i>One Small Square: Woods</i></li> <li>• Wilkes, Angela. <i>Animal Homes (Kingfisher Young Knowledge)</i></li> <li>• Mandel, Muriel. <i>Simple Weather Experiments With Everyday Materials</i></li> <li>• Cole, Joanna. <i>The Magic School Bus Inside a Hurricane</i></li> <li>• Gold, Becky. <i>Chasing Tornadoes</i></li> </ul>	<ul style="list-style-type: none"> <li>• Arnosky, Jim. <i>Crinkleroot's Guide to Walking in Wild Places</i></li> <li>• Nankivell-Aston, Sally and Dorothy Jackson. <i>Science Experiments with Light</i></li> <li>• Stille, Darlene R. <i>Tropical Rain Forests</i></li> <li>• Taylor, Barbara. <i>Look Closer: Desert Life</i></li> <li>• Whalley, Margaret. <i>Magnetism &amp; Electricity</i></li> <li>• Cole, Joanna. <i>The Magic School Bus and the Electrical Field Trip</i></li> <li>• Crossingham, John. <i>What Is Hibernation?</i></li> <li>• Clifford, Nick. <i>Incredible Earth</i></li> <li>• Nankivell-Aston, Sally and Dorothy Jackson. <i>Science Experiments with Forces</i></li> </ul>	<ul style="list-style-type: none"> <li>• Boudreau, Gloria. <i>Ecosystems - Life in a Forest</i></li> <li>• Cobb, Vicki. <i>Science Experiments You Can Eat</i></li> <li>• Gardner, Robert. <i>Science in Your Backyard</i></li> <li>• Gilbreath, Alice T. <i>The Continental Shelf: An Underwater Frontier</i></li> <li>• Southgate, Merrie. <i>Agnes Pflumm and the Stonecreek Science Fair</i></li> <li>• Southgate, Merrie. <i>No Place Like Periwinkle</i></li> <li>• Asimov, Isaac. <i>Why Does the Moon Change Shape?</i></li> </ul>



### eBooks and Audiobooks about Science, Nature, and S.T.E.M.

The following lists are from the [Richland Library](#) and can be accessed online using your library card account. If you do not have one, you can create a free Richland Library [account and card here](#).

- [Read All About It: Science Stories](#). Get inspired by these great books about space, nature, electricity, time travel and more!
- [Read All About It: Science Facts and Activities](#). Discover awesome science facts and activities about astronomy, exploding ants, the human body and more!
- [Read All About It: Math Stories, Concepts, and Activities](#). Multiply your skills with these story, concept and activity books that add up to a lot of math fun.
- [Read All About It: Technology Stories and Facts](#). Take off with technology by reading these stories, learning new facts and getting hands-on with your own gizmos and machines.
- [Read All About It: Engineering Stories and Facts](#). Give yourself a firm foundation by reading or listening to these books featuring stories and facts about architecture and engineering.

Also from the Richland Library for this summer:

- [Richland Library's Summer Learning Challenge](#). Follow this link to learn more about the Summer Learning Challenge!

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### Online Science-Themed Activities (all grades)

Each week this summer, take a virtual tour of a different location, park, museum, or exhibit. All of these options require internet access and should be previewed first by a parent or guardian.

**Virtual Zoo or Aquarium:** Go on a virtual field trip to a zoo or aquarium. Here is a short list of zoos and aquariums with live streaming animal cameras:

- |  |   |
|--|---|
| • <a href="#">San Diego Zoo</a>                  | • <a href="#">Georgia Aquarium</a>            |
| • <a href="#">St. Louis Zoo</a>                  | • <a href="#">National Aquarium</a>           |
| • <a href="#">National Zoo</a> (Washington D.C.) | • <a href="#">Monterey Bay Aquarium</a>       |
| • <a href="#">Aquarium of the Pacific</a>        | • <a href="#">Bronx Zoo/New York Aquarium</a> |
| • <a href="#">Houston Zoo</a>                    |   |

While you are there, make a list of the different animals you see. Use your observations to answer the following questions:

- |  |   |
|--|---|
| • What kind of animal is it?   | • How is the animal interacting with its environment?         |
| • What is the animal doing?  |   |
| • Are there different animals in the enclosure?<br>If so, what are they? | • How are the animals physically adapted for their enclosure? |

**Virtual National Park Tour:** Visit a National Park (virtually). Here is a short list of National Parks with virtual tours and live streaming cameras:

- |  |   |
|--|---|
| • <a href="#">Crater Lake</a> National Park    | • <a href="#">Yellowstone</a> National Park         |
| • <a href="#">Channel Island</a> National Park | • <a href="#">Katmai</a> National Park and Preserve |



## Richland Two K-5 Summer Resources/Science

While checking these places out, make a list of the natural features, plants, and animals you see. You can also describe what the weather is like, find the location on a map and compare it with where we live in South Carolina, and look up information about the history of the park. Check out this link for a more complete list of [National Park virtual tours and live cams](#).

**Virtual Natural History Museum:** Take a tour of a Natural History Museum or a Science and Technology Museum. Here is a short list of Natural History and Science Museums with virtual tours.:

- [Smithsonian National Museum of Natural History](#)
- [American Museum of Natural History Ology Website\(online scienceresources\)](#)
- [The Natural History Museum, London, England](#)
- [NASA Langley Research Center](#)
- [Museum of Science, Boston, MA](#)
- [Smithsonian National Air and Space Museum](#)
- [Smithsonian Udvar-Hazy Center](#)

While checking these places out, make a list of the different science exhibits that you find interesting. Describe what made it interesting for you. List the things you learned about this interesting exhibit while on your virtual tour. Make a list of questions you want to know more about the exhibit.

**Virtual Outer Space Explorations:** Explore Outer Space from your home! Here is a short list of NASA and other online resources, videos, and live streaming cams:

- [NASA Video Gallery](#)
- [NASA TV](#)
- [NASA for Students](#)
- [NOVA Tour the Solar System](#)
- [Solar System Tour](#)
- [Hubble Space Telescope Gallery](#)
- [Space-How-To's: Everyday Living Off-world](#)
- [Inside the International Space Station](#)

While watching these videos, exploring these images, or taking these tours, list the things you find interesting or exciting. Why do you find these things interesting? What else do you want to know about space? What would you want to do if you could go into space?

At Home Science Learning Activities	
Kindergarten	<ul style="list-style-type: none"><li>• Take a walk with your child and note the living and nonliving things in your surroundings. With your phone or a digital camera, you can also take pictures or even record your observations.</li><li>• Safely explore how pushes and pulls to make something move. Make and test predictions of what will happen depending on the strength or direction of the push or pull.</li><li>• Plant some radish or bean seeds in a cup or container and see what happens.</li><li>• Collect leaves and sort them by size, shape, color, and texture. Have your child invent ways to measure the size using an object other than a ruler. (Be aware of any poisonous plants.)</li><li>• Track the weather for several days in a row and ask your child to try to predict the next day's weather. Ask him/her to tell you why he/she predicted what would happen.</li><li>• If you have some photos or pictures of people, have your child make predictions about what the weather was like from looking at the photos or pictures.</li><li>• Discover what objects will stick to a kitchen magnet . Identify an object by the type of material from which it is made (wood, plastic, metal, cloth, or paper).</li><li>• Foster your child's innate curiosity.</li></ul>





## Richland Two K-5 Summer Resources/Science

<p><b>1st Grade</b></p>	<ul style="list-style-type: none"> <li>• Try placing different materials or objects in front of a flashlight and observe what happens.</li> <li>• If you have some small mirrors available, hold them together in different ways to look at your image.</li> <li>• Investigate the kinds of lenses that are used in sunglasses to filter light.</li> <li>• If you have an outside space, a sunny day, and some sidewalk chalk, go outside and have someone trace your shadow every half-hour or so. What do you observe about your shadow during the day? How does your shadow length relate to the position of the sun in the sky?</li> <li>• Explore different ways to produce sound by causing vibrations.</li> <li>• Predict and test how different materials sound when you cause vibrations with them.</li> <li>• Design a way to communicate using sound over a distance or in another room.</li> <li>• Keep a moon journal with your child. Go out and observe the moon, note the moon's shape and position in the sky, and make drawings. Can you name the phases of the moon?</li> <li>• Make a moon flipbook. (Search the web for directions.)</li> <li>• Talk with your child about what you can see outdoors; daylight and darkness, moon, and stars.</li> <li>• View educational television programs that have information on animals.</li> <li>• With adult supervision, take a walk in your neighborhood. Talk about the various animals that you see and how they look and what they need.</li> <li>• Compare pictures of different adult and young animals. Make a list of how parents and their young animals are similar and how they are different.</li> </ul>
<p><b>2nd Grade</b></p>	<ul style="list-style-type: none"> <li>• Identify solids and liquids around your home.</li> <li>• With adult supervision, cook or bake something and discuss the changes in the ingredients you put together.</li> <li>• Make some ice cubes and talk about the differences in liquid water and the solid ice.</li> <li>• Look at maps and globes and find the locations of water.</li> <li>• Make a rock and mineral collection.</li> <li>• Observe what kinds and where different earth materials are used in your area.</li> <li>• Plant several different seeds and watch them sprout and grow. Measure the weekly growth with a ruler.</li> <li>• Look at different kinds of plants and ask your child to tell what she or he sees. Discuss the differences among them.</li> <li>• Care for a household plant, noting that plants need air, water, nutrients, space, and light.</li> <li>• Research different places around the world. Make a list of the different plants and animals you learn about in these different locations. Compare them to where you live.</li> </ul>
<p><b>3rd Grade</b></p>	<ul style="list-style-type: none"> <li>• Keep track of the daily temperature for a week by using an indoor/outdoor thermometer. Write the temperatures on a calendar.</li> <li>• On a map with weather symbols, identify what each symbol represents.</li> <li>• Examine weather maps from one week and discuss the changes noted</li> <li>• Watch a program that describes safety precautions during severe weather</li> <li>• Use a magnet and check to see what kinds of materials are attracted. (Do not place magnets on a television screen and electronic devices.)</li> <li>• Make an electromagnet. You can find directions online.</li> <li>• Discuss some of the uses for magnets and electromagnets.</li> <li>• Read about Maglev trains.</li> <li>• Discuss the kinds of plants and animals found in South Carolina. What kinds of habitats are available in your state? You can also write and draw this information on a map.</li> <li>• View educational television programs that have information on plants and animals.</li> <li>• With adult supervision, take a walk in your neighborhood. Talk about the various plants and animals that you see and how they look and what they need to survive.</li> </ul>



## Richland Two K-5 Summer Resources/Science

4th Grade	<ul style="list-style-type: none"><li>• Use a flashlight to determine what materials are transparent, translucent, or opaque.</li><li>• Take a walk in your neighborhood. Talk about the various plants and animals that you see and how they look and what they need.</li><li>• Set up a terrarium or an aquarium.</li><li>• With adult supervision, Visit a natural trail, a pond, a lake, etc. Talk about the similarities and differences you see in plants and animals.</li><li>• Use a battery, bulb, and some insulated wire to make a simple circuit. Be safety aware when working with electricity!</li><li>• If you have a small compass, show what the current in the circuit you make does to the compass needle.</li><li>• Review a world map to see where the most active volcanoes and earthquake zones are.</li><li>• Start a rock and mineral collection. Learn how to classify rocks and minerals.</li><li>• Discuss examples of fossils and locations where they are found.</li><li>• Look up a list of fossils from South Carolina. Discuss what these fossils tell us about what our state used to be like millions of years ago.</li><li>• Go online and find maps that show landforms and oceans around the world. Compare these locations with South Carolina. Which landforms do we have in common? Which ones are not in our state?</li><li>• Go online and look for pictures of different locations along the South Carolina coast from different years. Compare how the coast looked in the past with how it looks now.</li><li>• Check out an amusement park online. Look at photos or videos of various rides and discuss the forces and motion of objects on the different rides.</li><li>• Test different designs for paper airplanes. See what happens when you change different things about each design.</li><li>• If you bike, rollerblade, or ride a skateboard analyze your motion. Note how you move to change direction.</li></ul>
5th Grade	<ul style="list-style-type: none"><li>• Take an inventory of the solids, liquids, and mixtures in your home.</li><li>• With supervision, make a trail mix. Measure the mass of each separate group of ingredients before you mix them then measure the mass of the trail mix after you combine the ingredients. What do you notice?</li><li>• With adult supervision, Visit a natural trail, a pond, a lake, etc. Talk about the similarities and differences you see in plants and animals.</li><li>• Read about endangered species and the reasons they are endangered.</li><li>• Set up a terrarium or an aquarium.</li><li>• Observe the night sky. See if you can locate easily recognized constellations.</li><li>• If you have access, download a free astronomy app.</li><li>• Keep a moon journal and track the appearance and position of the Moon each night.</li><li>• If you have a telescope or pair of binoculars, go outside at night and take a look at the Moon and stars. If you can find them, take a look at any planets that are visible.</li></ul>



**Richland School District Two**  
**English Language Arts Summer Enrichment**  
**Grades K-5**

**South Carolina Parent-Friendly College and Career Ready Standards**

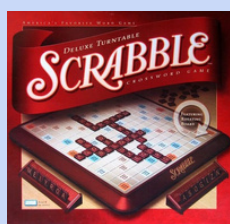
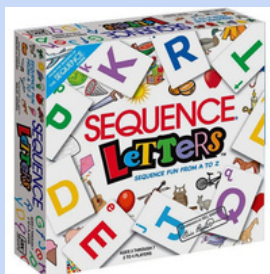
[Kindergarten](#)   [First Grade](#)   [Second Grade](#)   [Third Grade](#)   [Fourth Grade](#)   [Fifth Grade](#)

**Suggestions for Summer Reading**

Read for pleasure and have some fun! Don't worry about choosing a book on a certain level. Focus on building reading stamina and fluency, while exploring the world through literacy. Introduce yourself to a genre you don't usually read. Select books about people whose lives are different from yours. Read about people and places around the world.

Click [HERE](#) for more suggestions!

Practice reading, speaking and listening, and critical thinking skills as a family by playing some of the games below!



## Creative Writing

Write a letter or email to a friend or family member  
Rewrite the ending of any story you've read or movie you've watched

Write your own story, poem, etc.

Create a Graphic Novel or Short Series

Use magazines to write poems

Write a note in a secret code

Write the words for a wordless picture book

Write an "Ultimate Guide" to anything

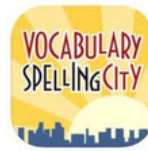
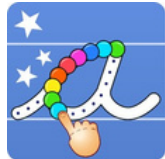
Journal about your summer experiences

Write a family newsletter/newspaper

Write a sticker story

## Google/Apple Apps

**\*Please preview any apps for advertisements\***



[Starfall](#)

[Ollie's Handwriting and Phonics App](#)

[Cursive Letter Writing Wizard](#)

[Get Epic!](#)

[Spelling City](#)

[Kahn Academy Kids](#)

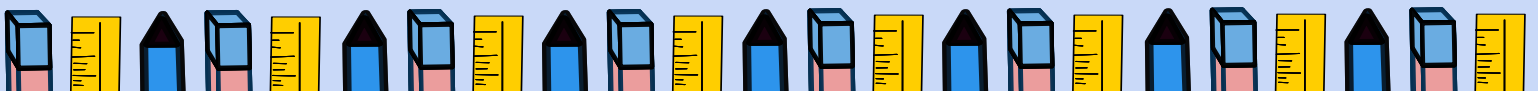
[Duolingo](#)

## Websites

**\*click on the image to visit the website\***



**Free Rice**  
Vocabulary





Learning and Fun at Home



### Other Summer Reading Opportunities

[South Carolina Department of Education: SC Summer Reads Parent Resources](#)

[2024 Summer Reading Challenge, Richland County Public Library](#)

[Chuck E. Cheese Summer Reading Awards/Incentives](#)

[Books A Million Summer Reading Adventure with Kate DiCamillo](#)

[Scholastic Summer Reading](#)

[Pizza Hut Camp Book It!](#)



*Happy Summer  
of Reading!*