



# FUTURE FOURTH GRADER ACTIVITIES

The goal of this calendar is to help students review content and skills over the summer through fun, grade-level appropriate tasks and activities that can be completed as a family. In an effort to increase literacy skills with this calendar, we suggest that each student keep a journal and write or draw daily about the activities they complete. Encourage your child to write new and interesting words they learn in their journal. Reading is one of the most beneficial things kids can do over the summer. We suggest that you read to your child or have your child independently read for 20 minutes everyday. \*\*Standards identifiers are shown in parentheses. Complete standards can be found at [www.georgiastandards.org](http://www.georgiastandards.org).

Math Monday	Outdoor Tuesday	Science Wednesday	Thinking Thursday	Family Fun Friday
	<p><b>1 Collect leaves</b> Make leaf crayon rubbings of at least two different leaves. What similarities and or differences do you see? Make a diagram to explain the information. (S3L1)</p>	<p><b>2 Reusing</b></p>  <p>Use items you would throw away or recycle to make a 3 dimensional sculpture. Name your sculpture, take a picture and share with someone. (VA3.CR.4)</p>	<p><b>3 Today is National Egg Day</b> Using a variety of materials or supplies on hand, design, build, and test a contraption that will protect an egg from breaking when dropped from a specific height. You will need 1 raw egg, a ziploc bag to put the egg in BEFORE you drop it, and materials you have on hand to build your contraption. Keep a record of science observations. How did you make it? What were your results? How high did you drop it from? etc... (ELAGSE3W7)</p>	<p><b>4 Think Like A Leader</b> Design your own game. Make sure you write down all of the rules. Play it with family members. If you need to change the rules, would you rather that one person gets to decide how to change them or should everyone playing the game get a vote? How would the rules be changed in a representative democracy? (SS3CG2)</p>
<p><b>Week 1 Garden Extension</b> <a href="#">Kitchen Scrap Gardening</a>, by Action for Healthy Kids. You can grow many plants from kitchen scraps such as celery, potatoes, ginger, onions, and fennel. Research to find some other plants you can grow from the parts of the plant you might normally discard in your kitchen scraps. Design a garden showing at least 10 of your favorite fruits and vegetables. Can you grow any of them where you live now? <a href="#">Kitchen Scrap Gardening</a></p>				
<p><b>7 Play basketball</b> Can you estimate how many shots you can make out of 8? If you do not have a basketball, ball up a piece of paper and try to ring a trash can. How many baskets did you make out of 8? What is the fraction of how many baskets you made? (SMP 2, 4, and 6)</p> 	<p><b>8 Go outside and play!</b> Write a story about your time outside. (ELAGSE3W3)</p> 	<p><b>9 Water Balloon Toss</b> How far apart can you stand from your partner and toss the balloon before it pops? Begin at two feet apart, step back two feet each time. Measure with a ruler or measuring tape. What was the total distance you stepped back? Try skip counting by two or multiply the total number of steps by 2. (SMP 5, 7)</p>	<p><b>10 Follow a recipe</b> Bake or cook a family dessert. Write your opinion about how it turned out. (ELAGSE3W1)</p> 	<p><b>11 Think Like An Economist &amp; A Historian</b> Collect all the coins you can find in your house. Organize the coins in a timeline. What do you notice about the coins? What do you wonder about them? What memorable/historical event happened in the year the oldest coin was made? In the year the newest coin was made? In what city is the mint that made each coin located? In what state and region is each mint located? (SSIPS #2, 6, 10, 11)</p>
<p><b>Week 2 Flag Day Extension</b> <a href="#">The History of the American Flag</a>, A Capitol Fourth, PBS, The American Flag has 50 stars to represent the 50 states and 13 stripes to represent the 13 original colonies. Research to find out the importance of the colors of red, white, and blue. Our flag is easy to recognize because of the patterning of the stars and stripes that we have seen many times. Think of some words that represent you and your family. Can you design a flag to represent your family? Tell the importance of the colors and the shapes. What patterns could you use with these colors and shapes?</p>				

### 14 Measure it Monday

Find five items shorter than your hand. Use a ruler to measure them to the quarter inch. Show your data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters. (SMP 5, 6)



### 15 Bird Feeder

Design and build a bird feeder. In your journal, draw a picture and answer the questions below.

How many birds do you think it will attract? What kind of birds might your feeder attract?

To identify the different birds use these resources. [Merlin Bird ID app](#) or [Allaboutbirds.org](#). (Cross Cutting Concept: structure and function)



### 16 Virtual Visit

Visit [National Geographic for Kids](#) and find something that interests you. Write an informational piece about what they learned. Trying to use expert words important to that topic



(ELAGSE3W2, ELAGSE3L6)

### 17 Catapult Design Challenge

How far can you launch something with a homemade popsicle stick catapult. Which items fly the farthest? How much farther did they fly? Plan, design, and build a working catapult.

[Use this easy popsicle stick catapult design](#) or let get creative with LEGO, pencils, spoons and cardboard tubes! (Cross Cutting Concepts: Cause and Effect, Energy and Matter, SMP 5, 6)

### 18 Think Like A Geographer

Take a walk in your neighborhood. What natural resources do you notice? Look at a [topographic map of Fayette County](#). What natural features do you see? Are they the same as the ones in your neighborhood or near your school? Are there any natural features on the map that you've never seen? (SSMGs #4; SS3E1)

**Week 3 Summer Solstice Extension** [The Summer and Winter Solstices](#), Scholastic.com. The longest day of the year is the perfect day to build your own solar oven. <https://desertchica.com/div-solar-oven-smores-kids-science-experiment/>

### 21 Baseball by the Numbers

Did you know baseball players did not always have numbers on their jerseys? It was not until 1932 that the National Baseball League allowed numbers on baseball jerseys. Read this [article](#) that has more information. Check out this read aloud of [Play Ball!](#) Play this game [Baseball by the Numbers](#) or play this online [baseball math game](#). (SMP 1, 6)



### 22 Have Seeds, Will Travel!

Most plants reproduce using systems that include flowers and seeds. Gather a collection of seeds from a wooded area. How do you think this seed travels? Is it sticky? Does it float through the air? Explain that plants have developed many different methods of seed dispersal, to ensure the success of their species. Examine the seed collection and invent a system for sorting or classifying them. (SMP 7,8, S3L1)

### 23 Tower of 100!

How high can you go! Using 100 marshmallows or other available materials, build the tallest tower possible! Tips: Have kids count out 100 items by groups of ten. Draw out a plan to get started. Take a picture or draw an illustration of your finished product. (SMP 1,5,6)

### 24 Story Writing

Write a story that includes dialogue. (ELAGSE3W3b)



### 25 Think Like A Historian

In honor of National Sunglasses Day Sunday, look up photos of people in sunglasses. They can be family pictures, pictures in a magazine, or historic pictures. Where in the US do you think the photos were taken? When was that state founded? Choose one photo that you like. Evaluate it like a historian. What people or things do you see in the pictures? What is happening in the images? What do you think will happen next? What new questions do you have? (SSIPS #6, 10; SSMGS #8: SS3H1a)



### Week 4: Dragon Boat Extension

What is buoyancy? <https://mocomi.com/buoyancy/> Find five items around the house or in your recycling bin. Can you make a boat that will float? How many pennies can your boat support? Think of a creative name for your boat.

### 28 Shadow Day

[Shadow Poem](#)  
Stand outside in the sun to make a shadow. Have someone mark where your shadow starts and stops. Use a measuring tape or ruler to measure your shadow to the nearest 1/2 inch. Can you find a way to make your shadow longer or shorter? (MGSE3.MD.4)



### 29 Go on a walk outside

Look for insects, birds and mammals. How many did you see of each? Create a tally chart to show what you saw. Then represent the data in a graph. (SMP 1,2,6)



### 30 Longest Paper Chain

Make the longest paper chain you can using a single piece of 8.5" x 11" paper and tape or staples. Measure your chain to the nearest foot and inch. (SMP 1, 5, 6)





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			<p><b>1 National US Postage Stamp Day</b> Today is National U.S. Postage Stamp Day. Think of a topic you learned about in science this year. Design a stamp highlighting your favorite science fact.. (VA2MC.1)</p> 	<p><b>2 Think Like A Historian</b> Create at least five questions about memories of Independence Day or another holiday. Ask one or more family members the questions you have created. Record your answers in your journal. Ask someone else the same questions. Are the answers they have provided facts or opinions? What other questions would you like to ask? What was the most interesting thing you learned? (SSIPS #4, 11)</p>

**Week 5 Independence Day Extension** Independence Day: Get the Scoop on why we celebrate the Fourth of July!, National Geographic Kids, <https://kids.nationalgeographic.com/history/article/independence-day>, Select a [craft activity](#) to complete as a fun way to celebrate the Fourth of July, research to find a fun, creative 4th of July patriotic dessert to make and share.

<p><b>5 Prepare a Meal</b> Help an adult prepare a meal. Can you measure the ingredients in the recipe? Can you double them? Can you half them? How many of the ingredients were measured in halves, thirds, fourths? (SMP 2, 5, 6)</p>	<p><b>6 Adopt a Tree Task</b> Pick a tree in your yard or nearby and observe it. Keep a tree journal where you can draw pictures of your tree and write about what you observe. (Planning and Carrying Out Investigations)</p> 	<p><b>7 Keeping it Cold</b> Design a device to keep a popsicle or ice cube from melting. Write about your experiment and provide a reaction to what happened. What would you do differently next time? (Cross Cutting Concept; cause and effect, energy and matter, S3P1)</p> 	<p><b>8 Virtual Visit</b> Visit one of these aquarium webcams: <a href="#">Georgia Aquarium Webcams</a> and <a href="#">Monterey Bay Aquarium Webcams</a> Use shapes to create an animal that lives in the ocean. Use at least 4 different quadrilaterals in your picture. (SMP 4,6)</p> 	<p><b>9 Secret Code</b> Have you ever used a secret word? Did you know that Cherokee, Choctaw, and Navajo Indians helped win World Wars I &amp; II with secret codes? Can you create your own secret code? You could use letters, numbers, shapes or something else. When you use your code, what patterns do you notice? See if a friend or family member can crack it. Who else might use your code? (SSIPS #6, 10, 11; SS3H1c)</p>
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**Week 6 Extension** [14 Tools to Turn Game-Obsessed Kids into Genuine Game Designers](#), Common Sense Media  
What would be the perfect video game? You get to create it! Think about the purpose of your video game. How will someone “win” your video game? Will there be different levels? Sketch your ideas on paper and share them with a friend or family member. Try to draw all the different levels to your video game. Can you convince your parents why you should or should not be allowed to play video games? Research and determine strong reasons to support your opinion. See how convincing you can be to your parents.

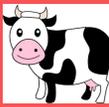
### 12 Skip Counting Hopscotch

Follow the top link for directions. Draw two different hopscotch games. Fill in the numbers. Have your child choose the correct skip counting numbers. (MGSE3.OA.9)



### 13 Cow Appreciation Day

Today is cow appreciation day. Brainstorm and write facts about cows. Is a cow a producer or consumer? Create your own "Look Like a Cow" costume. FYI: Today is Cow Appreciation Day at Chick-Fil-A (Cross Cutting Concepts; patterns)



### 14 Unsinkable Boat

Build a boat that floats and can't be sunk! Using recycled items and supplies from around the house, build a vessel that will float in a tub of water. Take it a step further and see how many pennies your boat will hold. Evaluate your success, and use the results to improve or make a new boat. Record your observations in your journal. (Cross Cutting Concept: structure and function, scale, proportion and quantity)



### 15 Make a puzzle.

Make a jigsaw puzzle by creating your own picture or using one from a magazine.

OR

Create a paint by number using multiplication facts. The key displays the answer colors. (SMP 1,6)



### 16 Think Like An Economist

The adults in your home are tired and have asked you to plan dinner. You can spend \$6 on each person in your family. If you have money left over, you can save it. What will you prepare? How much will it cost? What human and natural resources will you use to plan and prepare the meal? Which goods that you use will be from local sources? Will you be able to save any money? If you can save money, what is the opportunity cost (choice you gave up to have money left over)? (SS3E1, SS3E3, SS3E4; SSIPS )

**Week 7 Extension** "Go Back in Time" Find an old photo. Re-create the scene, take a picture, then use a black-and-white filter to make it look like it was from the past. Get started: Open your photo, tap Edit, then tap the three circles at the bottom to use filters. Try to caption your photos. You could go further and create your own back in time photo gallery with a fun theme. Are these primary or secondary sources? Learn more about the difference between a primary and secondary source and share your findings with someone at your home.

### 19 Scavenger Hunt

Find examples in magazines or newspapers of the numbers bulleted below. Cut them out and glue them down in your journal and answer the questions.



- Find a three digit number and round to the nearest 100. What two benchmark numbers does it fall in between?
- Find two-3 digit numbers. What is a good estimate of their sum? Now add them together. Is the actual sum close to your estimation?
- Find two-3 digit numbers. What is a good estimate of their difference? Now subtract them. Is the actual difference close to your estimation? (SMP 1, 6)

### 20 Sidewalk Chalk Pattern

Make a "stained glass" pattern using tape and sidewalk chalk. Try and include three different types of quadrilaterals in your picture. Take a picture and share your design with someone. (SMP 4, 6, VA3.CR.3, VA3.PR.1)



### 21 Liquid Density Tower Experiment

Gather these supplies: Syrup, Water, Cooking Oil, Rubbing Alcohol, Dish Soap, and a Tall Jar or glass. Slowly pour the liquids into the container. What did you notice? What do you wonder? (Cross Cutting Concept: Energy and Matter, Structure and Function)

### 22 Dance!

Make up a dance routine to your favorite song. Write or sketch the steps so you don't forget them. Practice it several times and perform it for your family. (ESD3.PR.1)



### 23 Amelia Earhart

In honor of National Sunglasses Day Saturday, research [Amelia Earhart](#) at the link and in books. Look at a map or globe. Identify the continents that she visited.

If you could meet Amelia, what questions would you ask her? What character trait best describes Amelia? Which one best describes you? (SSMGs #2, SSIPS #1, 14, ELAGSE3W8)

Bonus: Use items around your house to create airplanes.

**Week 8 Extension** Aviation: Take what you've learned about rockets and design your own or you can follow these directions from NASA. <https://www.jpl.nasa.gov/edu/teach/activity/straw-rocket/> How can you make it more aerodynamic? Smaller fins? More pointed "nose"? Only make one change at a time and see what a difference you can make!

### 26 Game Time

Play a card game with a family member or play Product War. Use a deck of playing cards removing all of the face cards (King, Queen, Jack) and use aces as 1. Deal out all cards between two players. Each player turns two cards and multiplies them together. The player with the largest product wins that round. Play 10 rounds. (SMP 1,6)



### 27 Collecting Rocks

Go outside and look at rocks. Collect 10 of them. How can you sort them? (texture, color, luster, hardness) Draw your rocks in your journal. (S3E1a, Cross Cutting Concept: patterns)

### 28 Playdough

Follow this recipe and steps to make [playdough](#). Use your playdough to make a three syllable word. (Cross Cutting Concept: cause and effect)

### 29 Obstacle Course

Design and make an obstacle course at home or in the yard. How fast can you complete it? Time yourself. Try it again. Was your time faster or slower than the first time? (SMP 5,6, GPSFP3.1)



### 30 Think Like A Historian

Visit two memorials or monuments in Fayette County or find two street names that are of interest to you or someone in your family. Research who or what is being honored.

If you were going to create a monument or memorial for someone in your life, who would it be? Why? Did they volunteer in their community? Ask the people in your family what they think about the last three questions. (SS3CG2b; SSIPS#1, ELAGSE3W7)

Other Suggested Resources:

- ★ MyOn - Digital Library over 10,000 titles. <https://www.myon.com/index.html>  
Enter the following information: **School Name:** Get Georgia Reading, Georgia Campaign for Grade Level Reading (Note: DO NOT cut and paste. Start typing "Get Georgia...") **Username:** fayettecounty **Password:** read
- ★ Local Libraries - [Fayette](#), [Peachtree City](#), and [Tyrone](#)
- ★ Georgia Public Broadcasting and PBS Kids - hosts online events and learning activities  
<https://www.gpb.org/education/summer-resources>