



RIVER CITY SCIENCE ACADEMY ELEMENTARY K-5



RCSA Elementary Summer Project: 2nd Grade

PROJECT DUE DATE: **September 7, 2021**

Expectations for Upcoming Second Graders

MATH

- Skip count to 100 by 2s, 5s and 10s
- Add and subtract single-digit numbers
- Add and subtract double-digit numbers without regrouping
- Identify two-dimensional and three-dimensional shapes
- Tell time to the hour or half-hour
- Identify even and odd numbers
- Read a simple bar graph
- Describe patterns
- Use a ruler to measure inches and centimeters

READING

- Read and write phonetic words as well as high-frequency words
- Craft correctly punctuated sentences
- Comprehend short chapter books with simple words and identify the main idea, setting, characters. etc.
- Identify nouns, action verbs and adjectives, use rhyming words
- Follow three-step spoken or written directions
- Read fluently and expressively
- Discuss what they have read.

STEM

- Understand the Solar System and how Earth and our life relate
- Understand the concept of habitats and distinguish between different types of habitats
- Know that objects can be described, classified and compared to their composition and properties (color, shape, etc.)
- Recognize and observe characteristics and behavior of living and non-living things
- Use investigation to seek information
- Collect and record data using tallies, lists, charts and graphs

SOCIAL-EMOTIONAL SKILLS

- At the start of second grade, students should be able to work independently, sustain attention for a longer time period and follow classroom routines.
- Students should be able to easily interact with their peers, as well as with adults.
- Although students will still have some issues when working in a group or encountering a source of conflict, they should be able to work out most issues amiably or seek help when appropriate.



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Homework Expectations for Second Graders

- Pass 2 reading and 2 math i-Ready lessons per week
- Daily math practice sheet
- Daily reading fluency practice passage
- Weekly reading logs, book reports, and/or standards mastery practice
- Quarterly projects

HOMework MUST BE PRINTED AT HOME from RCSA CONNECT!

Recommended Reading Resources:

<https://www.getepic.com/>

<https://www.jaxpubliclibrary.org/>

<https://www.starfall.com/h/index-grades123.php>

<https://www.freechildrenstories.com/>

Recommended Math Fluency Activities and Resources:

<https://www.coolmath4kids.com/>

<http://www.sheppardsoftware.com/>

<https://www.factmonster.com/math/flashcards>

Please keep all subject tasks together when turning in, i.e., ELA, Math, and Science.



Recommended Reading list:

Please visit <https://www.scholastic.com/parents/books-and-reading/book-lists-and-recommendations/book-lists---recommendations-for-ages-6-7.html> for a full range of recommended book lists. Below is a list from 1st grade as well.

Title	Author
"Daffodowndilly"	Milne, A.A.
"Eletelephony"	Richards, Laura
<i>A Picture Book of Benjamin Franklin</i>	Adler, David
<i>Chickens Don't Fly</i>	Disiena, Laura Lyn
<i>Clifford the Big Red Dog</i>	Bridwell, Norman
<i>Danny and the Dinosaur</i>	Hoff, Syd
<i>Drum Dream Girl</i>	Engle, Margarita
<i>Fantastic Undersea Life of Jacques Cousteau</i>	Yaccarino, Dan
<i>From Seed to Pumpkin</i>	Pfeffer, Wendy and James Graham
<i>How People Learned to Fly</i>	Hodgkins, Fran
<i>I Am Enough</i>	Byers, Grace
<i>I am Helen Keller</i>	Meltzer, Brad
<i>I Wonder</i>	Hoban, Tana
<i>Keep a Poem in Your Pocket</i>	Schenk de Regniers, Beatrice
<i>Madeline</i>	Bemelmans, Ludwig
<i>My Name is Celia/Me llamo Celia: The Life of Celia Cruz/lavida de Celia Cruz</i>	Brown, Monica and Rafael Lopez
<i>Now & Ben: The Modern Inventions of Benjamin Franklin</i>	Barretta, Gene
<i>Police Officers</i>	Bourgeois, Paulette and Kim LaFave
<i>Put Me in the Zoo</i>	Lopshire, Robert
<i>The Slug</i>	Gravel, Elise
<i>The Tale of Peter Rabbit</i>	Potter, Beatrix
<i>The Three Little Pigs</i>	Halliwell-Phillipps, James
<i>The Tortoise and the Hare</i>	Aesop
<i>The Ugly Duckling</i>	Andersen, Hans Christian
<i>The Velveteen Rabbit</i>	Williams, Margery
<i>The White House</i>	Douglas, Lloyd
<i>Tooth By Tooth: Comparing Fangs, Tusks, and Chompers</i>	Levine, Sara



ELA CHOICE BOARD

Complete 1 task in each column. Each task should be put on a separate sheet of paper with the subject and number as the header. (i.e. ELA: Reading Task #2)

Foundations	Reading	Communication	Vocabulary
1 Decode regularly spelled two syllable words. Eg. Classroom, baseball. Copy 10 two syllable words on a sheet of paper.	1 Create a Limerick Poem Line 1: There once was a ____ from/named ____ Line 2: Who..... (rhyme with line 1) Line 3: Shorter line that does not rhyme with 1 + 2. Line 4: Short line rhyme with Line 3. Line 5: "Punch line" Rhyme with lines 1 + 2 and make it long. Create a title and illustrate!	1 Write a personal narrative (with transitions and a logical sequence) about something you did this summer.	1 Use the sight word list for 2nd grade below, read the list daily to complete the entire list, write the words you need help to read 3x https://sightwords.com/pdfs/word_lists/dolch_2nd.p
2 Provide a list of prefixes and suffixes eg. un,re, dis. Suffix -ed,ing. https://www.youtube.com/watch?v=txNARc6bCxl	2 Read an informational text and write a summary clearly stating the main idea and supporting details the author gives the reader.	2 Copy the words. Then change y to i and add es to make a list of plural nouns. (bunny, flurry, copy, baby, fairy)	2 From the Dolch sight word list for 2 nd grade, pick 5 words and write complete sentence for each word. https://sightwords.com/pdf/s/word_lists/dolch_2nd.p
3 Read 1 book a week and retell story from beginning, middle, and end.	3 With help, find and print the lyrics to your favorite song. Highlight the figurative language used in the song. (Be sure it uses school appropriate language)	3 Research an ocean animal using several sources. Compose and present a 2-3-minute oral presentation.	3 Think about the word magnificent. Draw the outline of a basic house, each day add details to make the house magnificent.
4 Write a paragraph about your summer vacation, using correct spelling and grammar.	4 After reading a fictional text, create a new book cover displaying your favorite scene from the book.	4 Write an opinion piece about the best summertime treat. Use supporting details and transitions.	https://www.youtube.com/watch?v=l6YBoKSP50&ab_channel=KineticStorytelling 4 Listen to the story-The Blind Bachelor and Crippled Maiden. Think about the word COMPLAIN. Write about a time when complained about helping or sharing. Explain 3 times you were thankful.
5 Give 10 examples of verbs and 10 examples of nouns.	5 Read a story and then re-write the story from a different character's point of view.	5 Write a short dialogue between two friends. Use quotation marks correctly.	https://sightwords.com/sight-words/dolch/ 5 Use the sight words link and pick one of the activities to do with your family and friends. Write about your experience.



MATH CHOICE BOARD

Complete 1 task in each column. Each task should be put on a separate sheet of paper with the subject and number as the header. (i.e. MATH: Operations & Algebraic Thinking Task #4)

Operations & Algebraic Thinking	Number & Operations	Measurement & Data	Geometry
1 Write and illustrate four different addition word problems.	1 Using a hundreds, tens, and ones chart add $123+112$ then explain how you use the chart step by step to solve the problem.	1 Find eight things in your home to measure. Estimate, then measure, and find the difference of each item.	1 Draw a map of your home using as many 2D shapes as you can. Label and color your map.
2 Illustrate a book that will help someone learn their doubles facts up to 20.	2 Skip counting by 2s write the next ten numbers from 23.	2 Make a list of 5 things that usually happen in the AM and 5 things that usually happen in the PM.	2 Go on a scavenger hunt around the room for 3D shapes. Take pictures and create a collage of the shapes you found. Be sure to label!
3 Illustrate a book with at least 6 pages that shows different subtraction story problems.	3 Using a number line subtract $52-11$ then explain how you used the number line step by step to solve the problem.	3 Roll a die and graph how many times you roll each number. Keep going until one of your bars reaches 10.	3 Create a booklet that shows different fractions of different foods (for example, $\frac{1}{4}$ of a donut, $\frac{1}{2}$ of a sandwich).
4 Choose 8 subtraction facts to solve. Instead of writing them using numbers, write each of them using word form.	4 Skip counting by 5s write the next ten numbers from 37.	4 Pop Quiz Create a quiz to "test" a student on counting coins. Your quiz must have at least 10 questions and an answer key.	4 Use a Venn Diagram to compare and contrast two shapes of your choice. Choose two different shapes and repeat the activity.



SCIENCE CHOICE BOARD

Complete 1 task in each column. Each task should be put on a separate sheet of paper with the subject and number as the header. (i.e. Science: Nature of Science Task #1)

Nature of Science	Life Science	Physical Science	Earth & Space Science
<p>https://www.youtube.com/watch?v=fpeLuU6hxkA 1 Watch video and conduct a scientific observation. Research details and write 2 paragraphs on the about details.</p>	<p>1 Work with a partner to grow 2 small plants. Make a guess (hypothesis). Switch responsibilities, Measure amount of water, determine cm to plant in dirt. Pour water, -Note sun or shade, Journal daily Who, what, when, where, how and why- Was your guess correct?</p>	<p>1 Investigate the properties of solids and liquids. Create a t-chart for solids and liquids, then using a magazine, cut, sort, and glue pictures of solids versus liquids onto the t-chart.</p>	<p>1 Investigate, observe and describe how water left in an open container disappears (evaporates), but water in a closed container does not disappear (evaporate) over a five-day period. (Take notes)</p>
<p>https://youtu.be/qQBZbinoOrl 2 What is the scientific method? Here are the steps. Observation using your 5 senses. Form an opinion. Conduct an experiment. Eg. How long will it take 5 ice cubes to melt? Give your conclusions at the end. Write 2 sentences about it.</p>	<p>2 Research how domesticated cats (house pets) behavior compare to the behavior of wild cats in the zoo. Use Internet, experts, experience, etc... Write notes and keep them as a resource later.</p>	<p>2 Using 2 different sized sphere objects, investigate how push/pull affects the movement of the objects. Write down how the spheres move and in what direction. Find 2 ways they move when they bump into each other.</p>	<p>2 Create a list of items you would need in a Hurricane. Tell why each of these items are important.</p>
<p>3 Watch movie of the Amazon forest and give details of interesting animals. Animals. https://www.youtube.com/watch?v=aIXVcTpmzuc</p>	<p>3 Create a Venn Diagram to compare/contrast domesticated cats and wild cats held captive in the zoo.</p>	<p>3 Measure 1 cup of water or similar liquid. Using 4 different size and shaped containers, pour the water into each container. Record and observe if the volume is affected by a container's shape or size.</p>	<p>3 Read a book about rocks and/or gems then report facts on your two favorite ones.</p>
<p>4 Students will research what is a natural resource and man-made resource? Compare and contrast the two using information from your research.</p>	<p>4 Take a walk in your neighborhood or near a park and collect different leaves. Look up the names and write them, create a leaf reference book.</p>	<p>4 Cells lose or gain water based on the solutions they are in. A gummy bear will represent a cell. Soak 3 gummy bears overnight in three different solutions, distilled water, salt water, sugar water then record your observations about changes that occurred.</p>	<p>4 Make a poster about the three different types of rock. (igneous, sedimentary, and metamorphic)</p>



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