

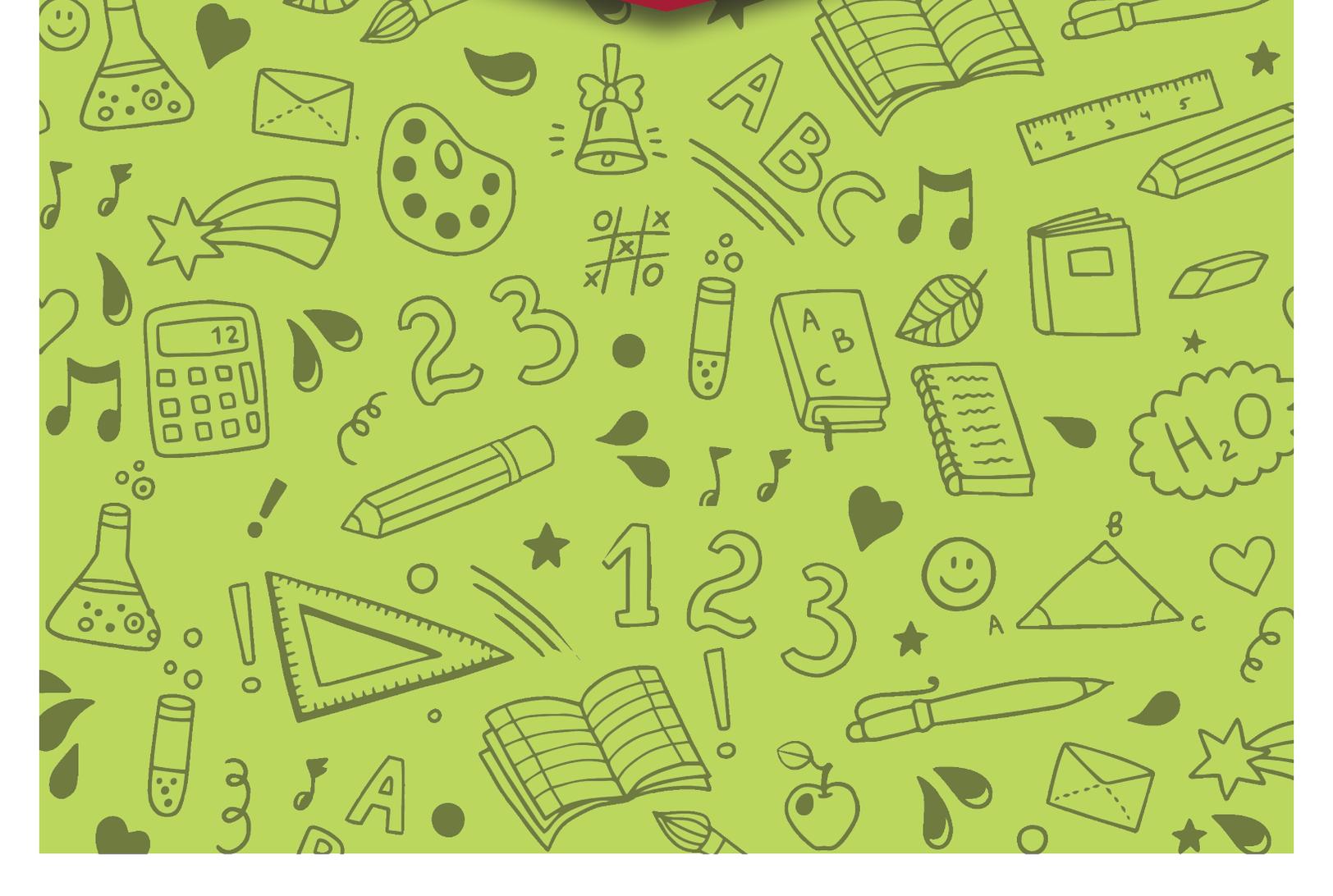


KCS | KNOX COUNTY SCHOOLS

2021-2022

SUMMER SCHOLARS GUIDE

SEVENTH GRADE



Letter: Scholars Guide

Dear KCS Families,

As the school year concludes, it is important to our educators and families that we provide opportunities for children to stay engaged with learning during the summer, especially with the unexpected school closure related to the COVID-19 pandemic.

KCS has created a Summer Scholars Guide for grades K-8 that serves as a resource for families and aims to minimize summer learning loss and promote preparation for the upcoming school year. Suggestions in the Scholars Guide are optional activities to help students maintain and expand their academic growth over the summer.

In the Scholars Guide, you'll find a list of academic standards from the grade level that your child recently completed, with practice tips on subjects that are already familiar. You'll also find a list of academic standards related to your child's next grade level, allowing them to prepare for the upcoming school year. In both cases, you may need to adapt the suggested activities to meet your child's specific needs. Reading is one of the best things your child can do over the summer, and your local branch library has books for students of all ages. The Scholars Guide includes a list of reading topics and suggested educational websites. We wish your family a fun and safe break and look forward to seeing your child back in school next fall!

****Please adhere to CDC recommendations during COVID-19 and consider virtual options where available.***

Glossary

Compass Rose – A circle showing the four directions printed on a map or chart.

Expression – Numbers and symbols grouped together to show the value of something (ex., $2 + y$).

Function – A rule or formula where each input value gives exactly one output value.

Integers – All whole numbers, both positive and negative, including zero.

Linear equation – An equation that gives a straight line when it is graphed.

Primary Sources – Immediate, first-hand accounts of a topic from people who had a direct connection with an event. Primary sources can include: texts of laws and other original documents; newspaper reports by reporters who witnessed an event or who quote people who did; speeches, diaries, letters and interviews - what the people involved said or wrote; original research; datasets or survey data, such as census or economic statistics; photographs, video, or audio that capture an event.

Proportional – When two quantities always have the same relative size or they have the same ratio (comparison of two numbers, often written as a fraction).

Secondary Sources – One step removed from primary sources, a secondary source is created by someone who did not directly witness an event, though they often quote or otherwise use primary sources. Secondary sources can cover the same topic as a primary source but add a layer of interpretation and analysis. Secondary sources can include: most books about a topic; analysis or interpretation of data; scholarly or other articles about a topic, especially by people not directly involved; documentaries (though they often include photos or video portions that can be considered primary sources).

Variable – Any symbol, usually a letter, which could represent a number.

What you learned **this** year and need to keep practicing

ENGLISH LANGUAGE ARTS

- Determine an author's position/opinion, explain how it differs from other people's alternative claims
- Explain whether a writer's or speaker's point is supported with enough details and evidence
- Write a story with a detailed setting (time and place) and dialogue (discussion) between characters
- Analyze how a theme or central idea develops in a text
- Determine meaning of words as they're used in a text

MATH

- Add, subtract, multiply, and divide rational numbers
- Add, subtract, factor and rewrite expressions
- Solve equations that represent real-world situations with two variables
- Write, read, evaluate (solve) and rewrite equivalent expressions with variables
- Solve equations with one variable
- Solve inequalities representing real-world situations

SCIENCE

- Read multiple publications to determine possible bias
- Investigate types of animal and plant adaptations
- Describe how elements on the periodic table, or compounds made from them, are present in everyday life
- Explain how energy flows through living and non-living parts of an ecosystem

SOCIAL STUDIES

- Gather, examine, synthesize, and communicate information from primary/secondary sources
- Learn world history: Fall of Rome, Age of Exploration
- Learn geography awareness/mapping skills: keys, legends, compass rose, and intermediate directions

What is ahead **next** year that you can prepare for

ENGLISH LANGUAGE ARTS

- Determine how characters interact over the course of a story to develop a theme
- Analyze how word choices impact meaning and tone
- Determine how particular sentences and paragraphs add meaning to an article or story
- Notice how modern stories include allusions (refer to famous or historical people and events)
- When writing or speaking, produce compound, complex, and compound-complex sentences

MATH

- Understand exponents, square and cube roots, and scientific notation
- Graph proportional relationships and interpret the slope as unit rate
- Solve linear equations/systems of two linear equations
- Understand, compare, construct, and describe functions, and know $y = mx + b$
- Understand and apply the Pythagorean Theorem

SCIENCE

- Ask questions that arise from careful observation of science in daily life experiences
- Use scientific reasoning to see if data supports claim
- Look for examples of waves in the environment and their use in technology
- Research the formation of the Appalachian Mountains

SOCIAL STUDIES

- Transition to U.S. history after two years of World History
- Learn about colonization, Civil War and Reconstruction
- Learn geography awareness/mapping skills: using keys, legends, compass rose, and intermediate directions

Things to do and places to go during the summer

*Please adhere to CDC recommendations during COVID-19 and consider virtual options where available.

ENGLISH LANGUAGE ARTS

Read 20 minutes daily and write summaries to share with a parent or sibling • Increase typing speed by practicing at [typing.com](https://www.typing.com) • Work on handwriting by copying down motivational quotes

MATH

Help your child find some appropriate number and problem-solving games to play online • Track or graph scores/stats for a favorite sports team including winning percentages • Help calculate gas mileage, best buys, and family budgets or vacation planning

SCIENCE

Visit area science museums, botanical gardens, or the zoo • Create a birding journal that identifies where and when each species was spotted • Use Khan Academy to learn about science topics online

SOCIAL STUDIES

Create your own Google Map and share with friends • Go on a high-tech treasure hunt for a geocache • Attend a Vintage Baseball Game at the Historic Ramsey House • Visit the McClung Museum, East TN History Center, Blount Mansion, Marble Springs, James White Fort

RTI2, ELL, SPED

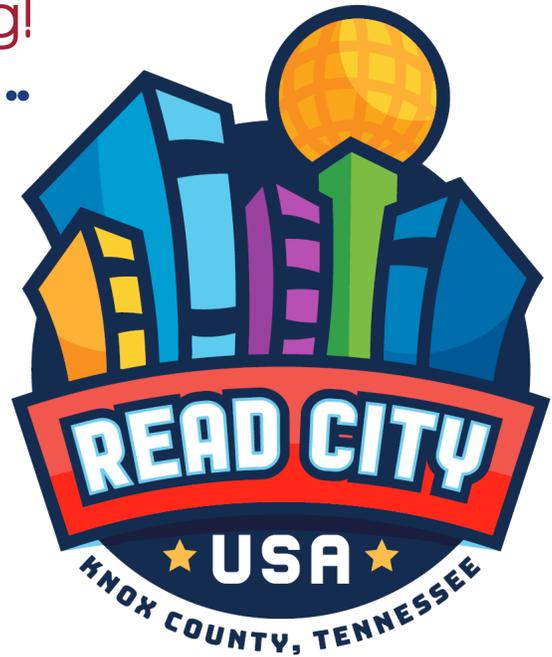
Students participating in interventions should receive individual reports related to their specific goals from the school throughout the year.

Keep reading all year long!

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Visit these websites for free reading materials and other important information about why literacy matters.

- ReadCityUSA.com
- Knoxschools.org/mackinvia
- Knoxlib.org



Reading List

ENGLISH LANGUAGE ARTS

- ***Strong Inside (Young Readers Edition)*** by Andrew Maraniss
- ***Percy Jackson and the Olympians (and other book titles)*** by Rick Riordan
- ***Property of the Rebel Librarian*** by Allison Varnes
- ***The Inquisitor's Tale*** by Adam Gidwitz
- ***A Tale Dark and Grimm*** by Adam Gidwitz
- ***What the Dickens: The Story of a Rogue Tooth Fairy*** by Gregory McGuire

MATH

- ***Kiss My Math: Showing Pre-Algebra Who's Boss*** by Danica McKellar
- ***Painless Pre-Algebra (Barron's Painless series)*** by Amy Stahl
- ***What's Your Angle, Pythagoras?: A Math Adventure*** by Julie Ellis
- ***Ruby Redfort: Feel the Fear*** by Lauren Child

SCIENCE

- ***An American Plague*** by Jim Murphy
- ***Outrageous Animal Adaptations: From Big-Eared Bats to Frill-Necked Lizards*** by Michael J. Rosen
- ***The Periodic Table Elements with Style! (and other Basher Science titles)*** by Simon Basher
- ***Blizzard!: The Storm that Changed America*** by Jim Murphy
- ***Fever 1793*** by Laurie Halse Anderson
- ***Brendan Buckley's Universe and Everything In It*** by Sundee Frazier

SOCIAL STUDIES

- ***The Atlas Obscura: Explorer's Guide for the World's Most Adventurous Kid*** by Dylan Thuras
- ***Cathedral*** by David Macaulay
- ***Medieval Life; Castle; Knight; Arms and Armor; Vikings; Renaissance*** by various authors
- ***Midwife's Apprentice*** by Karen Cushman
- ***Catherine, Called Birdy*** by Karen Cushman
- ***Crispin: The Cross of Lead*** and ***Crispin: At the Edge of the World*** by Avi
- ***The Shakespeare Stealer Series*** by Gary Blackwood
- ***Castle Diary: The Journal of Tobias Burgess*** by Richard Platt