



Topeka Collegiate School
Summer Reading Book List

Middle School

6th Grade (required) Reading for in-coming 6th graders includes 3 novels:

Under The Blood-Red Sun by Graham Salisbury

or

Bud, Not Buddy by Christopher Paul Curtis

and

two more novels of your choice. These may be selected from the Newbery Award list, the Michael L. Printz Award list, or other selection of your choosing.

7th Grade (required) Reading for in-coming 7th graders includes 3 novels:

Nothing But the Truth by Avi

and

two more novels of your choice. These may be selected from the Newbery Award list, the Michael L. Printz Award list, or other selection of your choosing.

8th Grade (required) Reading for in-coming 8th graders includes 3 novels:

Fahrenheit 451 by Ray Bradbury

or

Lord of the Flies by William Golding

or

Anne Frank: The Diary of a Young Girl

and

two more novels of your choice. These may be selected from the Newbery Award list, the Michael L. Printz Award list, or other selection of your choosing.

Summer Reading Assignment

Pick a character from any one of your summer reading selections. Ideally, you would pick a character that is featured prominently in your book. As you read, take notes about what this character is like. Do not limit your notes to physical descriptions; you should, by the end of your reading, really know about who your character is, what their personality is like, what makes them tick, etc. Getting to know your character is extremely important for the next part of this assignment.

Pick your favorite story. This can be a book, a movie, a play, or any kind of work that features a setting, characters, and a plot. In essay form, tell me about your choice, and summarize the important details of your choice (characters, setting, plot, etc.), but focus mainly on the plot. After your summary, you will then replace the main character of your favorite story with the chosen character from your summer reading novel.

Your job, in the next part of your essay, is to tell me how your character would behave in the novel you've placed them in. How would they interact with the other characters? How would their existence in the world of the story change that story? Would the story end the same way? These are just some of the questions your essay should address. This is why you need to really get to know your character, so you can make some solid predictions about how they would change the story you place them in. I will be checking your essay against your character notes in order to confirm that your predictions are based on what the character is actually like.

Consider the following:

Let's say I drop Harry Potter into the world of *Adventures of Huckleberry Finn*. In *Huckleberry Finn*, the world is very different. For one, it takes place in America in the 1800's, a setting vastly different than Harry's modern day England. Furthermore, magic, an extremely important element in the HP universe, does not exist in Huckleberry's world. These two differences alone would cause Harry to act and behave quite differently in Huck's story, and would likely lead to a very different plot altogether. Those differences in the character's behavior and how the story would play out would be the main concern of my essay.

The essay and the notes you take on your character will be due, typed and printed, on the first day of class. There is no length requirement, but you need to write as much as it takes to fulfill the requirements of the assignment.

Have a great summer!



NEWBERY AWARD BOOKS

2019 Medal Winner: *Merci Suárez Changes Gears* by Meg Medina

Honor Books: *The Night Diary*, by Veera Hiranandani

The Book of Boy, by Catherine Gilbert Murdock

2018 Winner: *Hello, Universe* by Erin Entrada Kelly

2017 Winner: *The Girl Who Drank the Moon* by Kelly Barnhill

2016 Winner: *Last Stop on Market Street* by Matt de la Peña

2015 Winner: *The Crossover* by Kwame Alexander

2014 Winner: *Flora & Ulysses: The Illuminated Adventures* by Kate DiCamillo

2013 Winner: *The One and Only Ivan* by Katherine Applegate

2012 Winner: *Dead End in Norvelt* by Jack Gantos

2011 Winner: *Moon Over Manifest* by Claire Vanderpool

2010: Winner: *When You Reach Me* by Rebecca Stead

2009: Winner: *The Graveyard Book* by Neil Gaiman

2008: Winner: *Good Masters! Sweet Ladies! Voices from a Medieval Village* by Laura Schlitz

2007: Winner: *The Higher Power of Lucky* by Susan Patron

2006: Winner: *Criss Cross* by Lynne Rae Perkins

2005: Winner: *Kira-Kira* by Cynthia Kadhata

2004: Winner: *The Tale of Despereaux: Being the Story ... of Thread* by Kate DiCamillo

2003: Winner: *Crispin: The Cross of Lead* by Avi

2002: Winner: *A Single Shard* by Linda Sue Park

MICHAEL L. PRINTZ AWARD BOOKS

2019 Medal Winner – *The Poet X* by Elizabeth Acevedo

2019 Honor Books – *Damsel* by Elana K. Arnold

A Heart in a Body in the World by Deb Caletti

I, Claudia by Mary McCoy

2018 winner – *We Are Okay* by Nina LaCour

2017 winner - *March: Book Three* by John Lewis, Andrew Aydin,
and Nate Powell

2016 winner – *Bone Gap* by Laura Ruby

2015 winner – *I'll Give You the Sun* by Jandy Nelson

2014 winner – *Midwinterblood* by Marcus Sedgwick

2013 winner – *In Darkness* by Nick Lake

2012 winner – *Where Things Come Back* by John Corey Whaley

2011 winner – *Ship Breaker* by Paolo Bacigalupi

2010 winner – *Going Bovine* by Libba Bray

2009 winner – *Jellicoe Road* by Melina Marchetta

2008 winner – *The White Darkness* by Geraldine McCaughrean

2007 winner – *American Born Chinese* by Gene Luen Yang

2006 winner – *Looking for Alaska* by John Green

2005 winner – *How I live Now* by Meg Rosoff

2004 winner – *The First Part Last* by Angela Johnson

2003 winner – *Postcards from No Man's Land* by Aidan Chambers

2002 winner – *A Step from Heaven* by An Na

2001 winner – *Kit's Wilderness* by David Almond



Summer 2022 Middle School Math Work Requirements

Incoming 6th Grade:

Continuing your brain work in math **will require** some summer work. Your assignments, to be completed by August 17, are attached to this message. There are six Performance Tasks that you are to complete. You may print them out and complete them, stop by the school office and get hard copies, or record all responses on notebook paper (or in document form), but **they must be turned in upon** your return to school in August. You may check in with Mr. Flax through email or a call to the school if you are having difficulty or want additional help with these tasks. All written responses must be in complete sentence and paragraph form. They are as follows:

Assignment 1 – Performance Task 1 will require the use of pages 35-37.

Assignment 2 - Performance Task 2 will require the use of page 38, and an explanation for each of your answer choices.

Assignment 3 – Performance Task 3 will require the use of pages 39-40.

Assignment 4 – Performance Task 5 will require the use of page 42.

Assignment 5 – Performance Task 7 will require the use of page 45.

Assignment 6 – Performance Task 10 will require the use of 50.

For students who have completed algebra 1A (The first half of Exeter Math 1):

The following problems represent the recommended Summer math practice set. The problems are intended to review important concepts from the previous year of math in order to prevent any sort of regression and to better reinforce them for next year as they will be necessary skills. You will have to copy and paste, but all of these problems can be found through the following link: <https://www.exeter.edu/sites/default/files/documents/Math1-2020.pdf>

Problems:

27, 65, 80, 82, 93, 95, 101, 142, 156, 162, 163, 203, 209, 210, 211, 226, 227, 232, 233, 234, 350, 355, 382 386, 407

In addition to completing these problems, it is recommended to attend a Summer “check-in” class with Mr. Simons on the following date: **Wednesday, July 20, 2022 from 10am-12pm in Learning Cottage B**

For students who have completed algebra 1B (The entirety of Exeter Math 1):

The following problems represent the recommended Summer math practice set. The problems selected are intended to prepare you for geometry come next year. Important techniques from the previous year are embedded into next year's curriculum, so ample review will be paramount. You will have to copy and paste, but all of these problems can be found through the following link: <https://www.exeter.edu/sites/default/files/documents/Math1-2020.pdf>

Problems:

392, 407, 421, 447, 555, 565, 568, 574, 578, 605, 607, 616, 646, 647, 648, 679, 689, 692, 693, 712, 716, 721, 729, 730, 731, 736

In addition to completing these problems, it is recommended to attend a Summer "check-in" class with Mr. Simons on the following date: **Thursday, July 21, 2022 from 10am-12pm in Learning Cottage B**

To help produce the exhibit titled *Into the Sky and Into the Earth*, the Museum Director has asked you to check the accuracy of the statements made in the exhibit. Later your task will be to help plan a budget.

Use the information in the Museum Exhibit Data Charts to complete the exercises.

1. Decide if each statement is true or false and explain why. If the statement is false, rewrite it to make it true.

a. The difference between the height of Denali and the height of Vinson Massif is 4297 feet.

b. The greatest depth in Carlsbad Caverns is a little more than twice the greatest depth in Mammoth Caves.

c. The caves in order from shortest length to longest are:
Carlsbad Caverns, Mammoth Caves, Neff Canyon, Ellison's Cave

2. The length of Ellison's Cave is about what fraction of the length of Carlsbad Caverns? Explain your thinking.

3. Look at the data in the two tables about mountains and caves. Write two conclusions that you can put on signs for the walls of the museum exhibit. Explain how you know each conclusion is correct.

4. **Extension** The money that has been spent on this exhibit so far is given in a table on the Data Chart page. The total budget for the exhibit is \$23,000. The Museum Director wants to use the money that has not been spent for a party to celebrate the opening of the exhibit.

- a. How much money can the Director spend on the party?

- b. The Director asks you to help budget money for the party according to expense ratios she provided. $\frac{\text{Music}}{\text{Total}} = \frac{1}{4}$ $\text{Food} \leq \frac{1}{3}$ $\text{Decorations} \leq \frac{1}{4}$ $\text{Invitations} \leq \frac{1}{6}$. Make a plan for a party to show how you will spend the money.

Museum Exhibit Data Charts**Height of Tallest Mountain in Each of Six Continents**

Name and Location of Mountain	Height
Aconcagua, Argentina Continent: South America	22,840 feet
Denali, Alaska Continent: North America	20,320 feet
Kilimanjaro, Tanzania Continent: Africa	19,339 feet
Mount Everest, Nepal/Tibet Continent: Asia	29,029 feet
Vinson Massif, Ellsworth Range Continent: Antarctica	16,023 feet

Caves and Caverns in the United States

Name and Location of Cave	Length of Caverns	Greatest Depth
Carlsbad Caverns, New Mexico	23 miles	1014 feet
Ellison's Cave, Georgia	64,030 feet	1063 feet
Mammoth Caves, Kentucky	348 miles	450 feet
Neff Canyon, Utah	1700 feet	1189 feet

Money Spent: Into the Sky and Into the Earth Exhibit

Category	Money Spent
Materials	\$5374
Labor	\$12,956
Advertising	\$2985

You are helping the Centerville mayor publish information about the town on a Web site. However, you have run into a problem. There are three statements about Centerville and three diagrams but there is nothing that says which diagram goes with which statement. The mayor is out of town so you must decide.

Statement 1: $\frac{3}{5}$ of the city garden is devoted to growing vegetables.

Statement 2: The library is located $\frac{3}{5}$ of the way along the road from City Hall to the school.

Statement 3: Three out of every five people in Centerville use the library.



Decide which diagram best represents each statement. Explain how you made each decision.

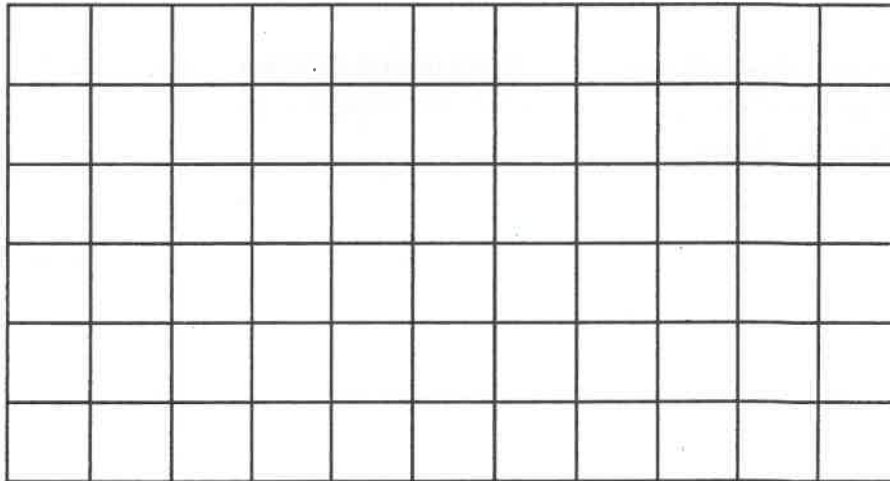
1. _____

2. _____

3. _____

Last season, the football team won its twentieth Division Championship title. For a celebration at halftime at this season's Homecoming game, you have been asked to help design a "flag" that covers most of the playing field, using vinyl "tiles." The tiles must meet these requirements:

- All tiles must be square. You must use whole tiles.
 - You must have enough tiles to cover an area of the football field that is 99 yards long by 54 yards wide.
 - Tiles must be either black or white. You must use 20 black tiles to form letters or symbols representing "20," for the number of championships won.
 - The flag design must be symmetrical.
1. Use the grid below to show how you would arrange the tiles. Show all the dimensions and indicate the size of the tiles you will be using.



2. What is the perimeter of the flag in feet?

3. Describe how your design is symmetrical.

4. How many tiles do you need to cover the flag's area? Use the number of tiles in the length and width of the flag and the square area of each tile to calculate the total area covered by the flag.

The table below shows the prices for vinyl from different suppliers.

Supplier	Price
Sign and banner company	\$0.81 per sq. yd (any color)
Discount vinyl retailer	\$0.57 per sq. yd white \$1.38 per sq. yd black

5. Compare the cost of buying vinyl from the two suppliers, based on the total number and color of tiles your design requires.

6. To replace tiles that were damaged during rehearsal, you need to order vinyl for 10 more white tiles. Which supplier would you buy from to minimize cost? Justify your answer.

Your task at The Bread Bakery, is to prepare ingredients for making the bread. Today you are going to pre-measure the flour to help the baker make whole wheat bread and rye bread.

1. It takes $1\frac{3}{4}$ cups of rye flour to make 1 loaf of rye bread. Complete the table to show how much rye flour the baker needs to make different numbers of loaves.

Number of Loaves of Rye Bread	3	6	9	12	15	18	21
Number of Cups of Flour	$5\frac{1}{4}$						

2. There are 34 cups of flour in a ten-pound bag of flour. How many bags of flour does the baker need to make 21 loaves of rye bread? Explain your thinking.

3. a. Write a rule that shows how much flour you should pre-measure for different numbers of loaves. Use x for the number of loaves and y for the number of cups of flour.

- b. Use the equation to find out how many cups of flour are needed to make 30 loaves.

The Sanchez Survey Company takes surveys for companies. They recently did a survey in a town of 10,000 people to find out if the citizens of the town would prefer a swimming pool, tennis court, or baseball field in the town's new recreation park.

1. They asked 5 people and all 5 people wanted a swimming pool. If they make a prediction based on this data, what might they conclude?

2. Then they asked 1000 people about their preferences and found that:

231 people wanted a swimming pool

496 people wanted a baseball field, and

273 people wanted a tennis court.

If they make their prediction based on this data, what might they conclude?

Explain your thinking.

3. Finally the town took a vote. The results of the vote were that 2156 people wanted a swimming pool, 5045 people wanted a baseball field, and 2799 people wanted a tennis court. What did most of the people in the town want?

4. Did the survey company get a result that was closer to the actual preferences with the sample of 5 or with the sample of 1000? Explain why or why not.

At the Millions of Marbles Company red marbles are very popular. There must be 4 red marbles for every 10 marbles in a package.

1. What is the ratio of red marbles to the total number of marbles in a package?

2. Complete the table to show how many red marbles should be in each package.

Number of Red Marbles					
Total Number of Marbles	10	50	100	250	500

3. Explain how to find the number of red marbles in a package of 1000 marbles.

4. A new employee has joined the company. She must make a table for predicting the number of blue marbles in the different sized packages. There must be 2 blue marbles for every 10 marbles in each of the different sized packages. Explain how to do this for the new employee.

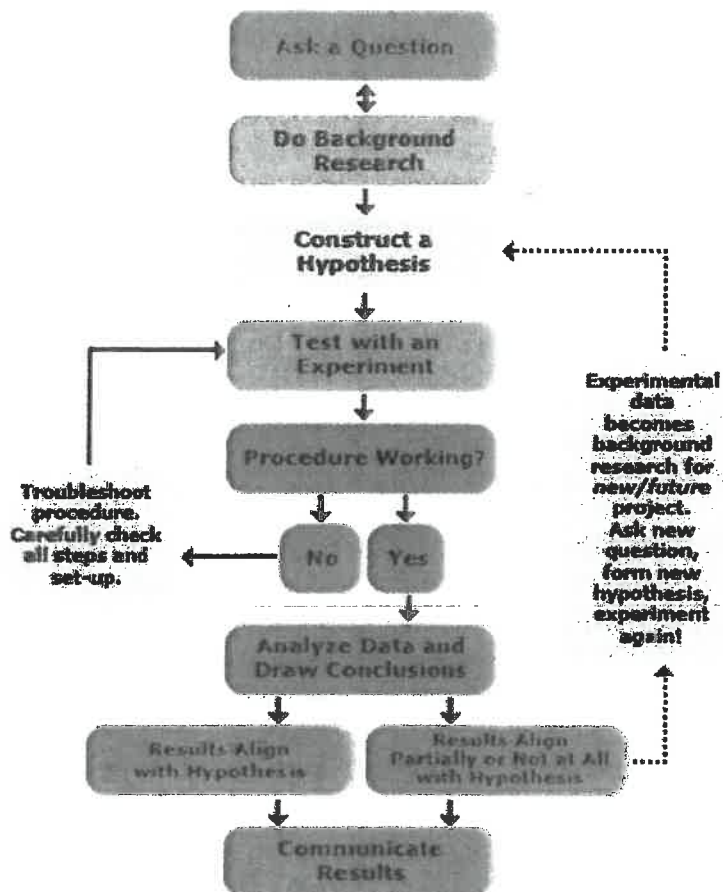
Abstract:

The purpose of this enrichment opportunity is to give returning students the opportunity to get a head start for next school year's Science Day Exhibition. Science Day is a Fall, semester long project where students are tasked with working in a group or by themselves on a project which utilizes the scientific method. Sometimes, the most challenging part is coming up with a good project idea. This Summer, I am tasking students to brainstorm ideas by using the following guidelines below. Please note, that any work done over Summer is entirely optional, but extremely advantageous, as it is a mandatory project for all Middle School students in Fall.

Instructions:

1. The flow chart on the next page reflects the process of the scientific method. The first step, is always **asking a good, scientific question**. Use the following guidelines below to develop one.
 - a. **Pick a topic you are interested in!** Science is an incredibly broad field of study and you can turn almost any hobby or passion into a science experiment. This will increase the enjoyment you will get from designing your project.
 - b. **Consider your variables.** A question is not ready to be tested unless you can clearly define your variables. There are three variables to consider listed and defined on the next page.
 - c. Here are some examples of questions from last year's Science Day.
 - i. Does the color of light a plant receives affect that rate at which that plant grows? If so, which color of light allows a plant to grow fastest?
 - ii. Do children fail to determine the difference between medicine and similar looking candies and if so, what age groups fail?
2. **Begin research.** The second step of the scientific method is to do background research. Use evidence from other, similar experiments to support and design your own.
 - a. **Make sure your source is reliable!** We live in a world with an oversaturation of information, some of it inaccurate. To ensure that your research is viable, ask yourself the following questions.
 - i. **Who wrote it?** Who is your author and are they qualified and unbiased enough to be taken for fact? Are they peer reviewed?
 - ii. **What type of website is it (only applicable for web sources)?** Did you get information from a website that is trying to sell something? Do they have a financial or political agenda? Is it a .gov, .edu, .org, .com, etc...?
 - iii. **Is your source education focused?** Is the primary effort of your source to educate people?
 - b. **Build from what other people have discovered.** A goal of science is to continue building from the works of others. Maybe other people have done similar experiments to the one you have in mind. It is worth looking at what other people have done so perhaps you can avoid mistakes that they made or make improvements that they might help suggest.

Resources:



Control Variable: A value that is kept constant throughout the experiment so that your results can be compared back to something.

Manipulated Variable: A value that is being tested and changed throughout the experiment. Sometimes called the independent variable.

Measured Variable: A value that is measured in order to mark change in the manipulated variable. In other words, what unit of measurement are you using to evaluate your controlled and manipulated variables.

Websites:

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

<https://sites.google.com/a/kansassciencefair.com/kansas-state-science-and-engineering-fair/>

Notes:

This enrichment opportunity is solely focused on the first two steps of the Scientific Method. I do not recommend that students work beyond that point as additional instruction will be given once the school year has begun. I will readily be responding to emails over the Summer, so please send any questions to ksimons@topeka.collegiate.org.

Summer 2021 – Optional Spanish Enrichment

Abstract:

The purpose of this enrichment opportunity is to give returning students the opportunity to reinforce and further explore the Spanish language. This summer, I am inviting students to continue their language study by using the websites below. Please note that any work done over summer is entirely optional, but extremely advantageous for all middle school students in the fall.

Resources:

- 1) <https://www.thespanishexperiment.com/stories> - The Spanish Experiment is a good place to find classic fairy tales in Spanish. You can show the English translation right on the website with the click of a button. Hearing and reading Spanish is one of the best ways to learn, so just enjoying a story is good for keeping up your Spanish skills.
- 2) <https://www.spanishdict.com/vocabulary> - SpanishDict Vocabulary is a great quiz program that helps you expand your vocabulary. It's like DuoLingo lite.
- 3) <https://www.duolingo.com/> - DuoLingo is a great language learning program that gives you rewards for reaching daily goals. It is good for setting a routine over the summer.

