

JUNIOR BLUES (11-12) #keeplearning Board



Even though we are not physically together, learning happens every day. This #keeplearning Board is designed to keep families and schools engaged with learning while we are temporarily apart.

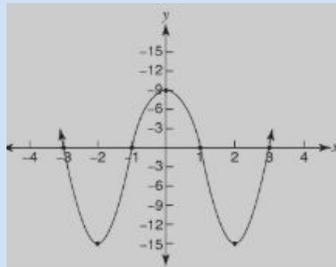
Our teachers have worked together to identify learning opportunities that allow students to explore areas of interest and previously covered learning. **We encourage students and families to work together to engage with some or all of the activities each day as schedules and home responsibilities allow. We recognize not everyone has access to technology, so do not worry if you get to a stopping place. Simply compose questions to ask your teachers later.** We would also encourage students to reach out to their peers, through virtual means, to engage with these topics as able and appropriate. Our primary goal is to #keeplearning even in trying times--just as adults do throughout their lives.

If you have questions or need assistance with any tasks, **please reach out to the specific subject's teacher via email.**

	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
English Language Arts	<p>1. This is a historic time. Years from now, your children and grandchildren may ask what this time was like to live through. Write about this. Try to fill a page with your thoughts about what you think about it, how you feel about it, what is going on near and far from you. Capture and discuss how this virus has disrupted your school year and daily life—including sporting events, concerts, assemblies, dances. Share the effect it has had on your friends and family. Make this a daily routine.</p> <p>2. Read a book -- ANY BOOK! If you don't have a book, read a magazine article. Spend at least 30 minutes every day reading.</p>	<p>1. Look at Monday activities. Keep those things going! They are important!</p> <p>2. No doubt you have been filling some of your time with movies, television shows, podcasts, video games -- those sorts of things. Write a review of something with which you have been filling your time. Assume that you will share this on social media or in some sort of publication.</p>	<p>1. Keep on keeping that journal and reading something!</p> <p>2. Make a top 10 list of the best books you've ever read. Put it in order from best to 10th best. If you want to, prepare a defense of why you chose your #1 book.</p>	<p>1. You KNOW you need to keep working on that journal and keep reading!</p> <p>2. Is there a particular song that has lyrics that seem particularly relevant to you? Write down those lyrics or sing that song!</p> <p>3. Do some grammar! (Yes, grammar!!)</p> <p>Find the subject/verb/direct object/indirect object in the following sentence: John gave Mary a rose for no special reason.</p>	<p>1. Do I even need to say it? Write in your journal and READ!</p> <p>2. Go outside and breathe some fresh air if you can (following health guidelines). Reflect on the good things about school and life.</p>

Math

Peruse and consider [Math for Grown-Ups](https://mathforgrownups.com/category/math-for-grownups/math-at-work-monday/) (<https://mathforgrownups.com/category/math-for-grownups/math-at-work-monday/>), as it includes many discussions on math usefulness, including the Math at Work Monday series in which the author interviews people in a variety of professions about how they use math. Think about how you might use math in the career that you are considering.



Describe the graph using key features:

- 1) Domain & Range
- 2) Intercepts (x & y)
The intercepts of ___ and ___ are ___.
- 3) Intervals of increasing & decreasing
The intervals of increasing are _____.
The intervals of decreasing are ____.
- 4) Intervals of positive & negative
The intervals of positive are _____.
The intervals of negative are ____.
- 5) Relative maximums & minimums
The ___ are ____.
- 6) End behavior
The end behavior is ____.

Which one doesn't belong (<https://wodb.ca/>)? Choose which one of four options "doesn't belong". Explain why.

A juice company wants a new container design, and you have been commissioned to create it. It should look different than other containers so that it stands out to customers --it could be a prism, cone, pyramid, a combination, or any three-dimensional geometric figure you can describe. It needs to have a volume of 16 fluid ounces.

Once you have your design, you'll need to prepare a prototype of the container, or an image showing what it will look like and what its dimensions will be and calculations that prove the container will hold 16 fluid ounces. Your mathematical reasoning should be as clear as possible, so that people who aren't as comfortable with math can understand.

Would you rather? <http://www.wouldyourathermath.com/>
(Make sure you choose the correct grade band from their homepage.)

Choose the "better" of two options, and defend your choice mathematically.

What is the largest value of x that solves the equation $x^2 - 4x + 3 = 0$? Justify your answer.

Write the equation $y = x^2 - 8x - 20$ in factored form and in vertex form.

In the word HAWKS, how many ways is it possible to rearrange the letters if none repeat and the letter W must go last? Show your work.

The answer is _____ because _____.

Select one of the topics which applies to what you have learned from the current topics you have learned. Follow through and complete the problem/problems

The website <https://www.openmiddle.com/> provides tasks with fixed launches and fixed end points, but open middles allowing you to forge your own path to successful resolution.

Select an article online that deals with financing a house, investing for retirement. Read through the article/(s).

What has happened with the interest rates for being able to finance a house and would this be a good time to finance? Explain.

Second part, would now be a good time to add more money to investing in your retirement if you have some extra money or be a good time to start a retirement with investing? Explain.

Select one of the grade level topics which applies to a topic which you have learned from the current class you are in.

<http://www.shodor.org/interactivate/activities/> is a website with a wide variety of math games and simulations covering various topics.

Hidden Figures, A Beautiful Mind, Stand and Deliver, The Man Who Knew Infinity, and $x+y$ are all movies in which math plays a central role. Watch one with your family, taking special note of when you see math that you may have done in your classes.

Arithmetic Series

Find the sum of the arithmetic series $13 + \dots + 61$.

	Monday	Tuesday	Wednesday	Thursday	Friday
Social Studies	<p>Research a historical figure you've learned about in class and make a TikTok about them.</p> <p>Make a playlist from a decade in history and listen to it (1920s, 30s, 40s, 50s, 60s). Pick the best song. (Spotify, Amazon Music, YouTube, dig through any old music)</p>	<p>Compile a streaming service watchlist of 3-5 shows, movies, etc. about a historical topic of your choice. (Hulu, Netflix, Amazon Prime). Or, watch a documentary off a streaming service or a movie at home about a historical topic of your choice.</p> <p>You're hosting a dinner party for historical figures. You need: a politician, a scientist, a human rights figure, a rebel, a writer, artist or musician, an actor/influencer, and a philanthropist. Who would you invite to have the best dinner party? Why? Would these guests get along? Research them if you don't know much about them!</p>	<p>Write and reflect on your experiences during the current health situation. It will become a primary source! What would you like future generations (or future you) to know/remember about these experiences? Write it by hand, or create a shared Google Doc with someone from your class!</p> <p>Watch the news. Research what national/state/local governments are doing. What are the three branches of government doing?</p>	<p>Read five news articles from different news sources about a topic. Consider how the perspectives are similar and different.</p> <p>There's been a lot of comparisons between 2020 and the 1920s. Is it a good comparison? Research similarities and differences.</p> <p>Find three pieces of positive news during this time. Share it with a friend, family member, or teacher.</p>	<p>Design a t-shirt (online, on paper) for a historical figure, movement, or time-period.</p> <p>Create a collage of famous photographs or artworks from a historical era that your class had studied.</p> <p>Research and poetry from a historical period, or write your own about that time period, or current events!</p>
Science	<p>Asking Questions: The coronavirus has led to an international pandemic. Generate a list of questions that you could research in order to gain a deeper understanding of the scientific nature of this disease.</p>	<p>Developing and Using Models: Using any source of data, compile the coronavirus transmission data for 3 countries and create a graph from this data. Provide a claim that can be supported by this evidence.</p>	<p>Analyzing/ Interpreting Data: Now that you have compiled and graphed a set of transmission data, please compare the data from different countries and distinguish between <i>causal</i> and <i>correlational</i> relationships in the data.</p> <p>(Example - How has the data been influenced by the way the country has handled the pandemic internally?)</p>	<p>Using Mathematics and Computational Thinking: Based on your graphed data, make quantitative predictions (based on the current transmission rate) for the three countries for:</p> <p>-1 week -1 month -3 months</p> <p>(into the future)</p>	<p>Obtaining, Evaluating, and Communicating Information: Compare and evaluate three sources of information as it pertains to the Coronavirus pandemic.</p> <p>Assess the validity and reliability of information presented in the sources.</p>

<p>Skills for Success</p>	<p>What is your plan for dealing with stress? Have you thought it through? Review this article (https://www.aap.org/en-us/professional-resources/Reaching-Teens/Documents/Private/Personal_plan_handout.pdf) for some helpful ideas.</p> <p>Headspace.com (free for 2 weeks)</p> <p>Who is someone you think might be lonely in this time of social distancing (a grandparent, neighbor, classmate who tends to isolate at school, etc.)? Make a point to reach out to that person, either by phone, text, or letter, just to see how that person is doing.</p>	<p>Do you prioritize getting enough quality sleep? Studies show that teens need 9 - 9.5 hours of sleep to be truly rested. Tips on how to get the ZZZs you need can be found here: https://www.sleepfoundation.org/sites/default/files/in-line-files/teenstips.pdf</p> <p>Practice calming breathing:</p> <p>Take a long, slow breath in through your nose, first filling your lower lungs, then your upper lungs. Hold your breath to the count of three. Exhale slowly through pursed lips, while you relax the muscles in your face, jaw, shoulders, and stomach.</p>	<p>WRHS has a robust Career & Technical Education (CTE) program, but do you know what all it offers? Check it out at http://teacher.usd437.net/wrhs/cte/pathways.html.</p> <p>Try your hand at coding at https://code.org/.</p> <p>Take some time to interview the adults you have contact with- use social distancing - and ask them about their careers. What is satisfying? What is challenging?</p>	<p>Are you wanting to travel? Take a virtual tour of some of the world's finest museums.</p> <p>If you were to make a virtual tour of any place in the world, what would it be? What would you include in the tour? Who would you interview for the tour? Share your thoughts with family and friends.</p>	<p>Have you really taken a deep dive into Naviance (https://student.naviance.com/washburnrh)? Use this time to explore all the postsecondary planning tools it offers! Look for the ROADTRIP NATION videos.</p> <p>Check out this activity on budgeting (available here: https://docs.google.com/presentation/d/1sE8A1-CqnrTltOTYAx2PzoUFO9nbGTCNhDi4pPQuq2w/edit?ts=5e72c379#slide=id.p. Must request access.) How might it be helpful in the present AND in the future as we move from High School into postsecondary education and careers?</p>
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Online Library Resources (<https://sites.google.com/usd437.net/awlibraries/resources>)

Access WRMS and WRHS Library resources at <http://library.usd437.net>. Students may login with their network username and initial + number password. Both electronic books and audiobooks are available and can be found by searching for material type for eBooks or Sound Recordings.

The Kansas State Library (<http://kslib.info>) serves the library needs of Kansas citizens and provides access to high-quality online resources. Contact your school library and media specialist for assistance with accessing these resources, as some require a Kansas State Library card.

The Topeka and Shawnee County Public Library (<https://tscpl.org/>) provides library needs to Topeka and Shawnee County residents. Students are automatically enrolled unless opted-out by parents. Username/Barcode: 437+student ID number (ten digit number). Password is your four-digit anticipated graduation year.

Be safe. Be well. #keeplearning

