

EDUPRIZE Grade 8 Academic Extensions during School Closure - March 24-27

	Monday 3/23	Tuesday 3/24	Wednesday 3/25	Thursday 3/26	Friday 3/27
Math		<p>Draw a coordinate plane. Plot the following points: (0,2), (0,8), (5,8). Plot the point at the correct location to complete a rectangle. Label the coordinates of the fourth point. Connect the points to form the rectangle. Calculate the perimeter and the area of the rectangle.</p> <p>Plot a rectangle with twice the perimeter of the first rectangle. What are the coordinates of the vertices of the rectangle?</p> <p>Plot a rectangle with half the area of the first. What are the coordinates of the vertices of the rectangle?</p>	<p>Draw a coordinate plane. Label the y-axis Distance (in 10 mile increments). Label the x-axis Gallons (one-gallon increments). Draw and label a line in quadrant 1 that represents vehicle A that can travel 30 miles on one gallon of gas. Draw and label a second line (use a different color if possible) that represents vehicle B that can travel only 20 miles on one gallon of gas. Explain why both lines would start at the origin (0,0). Ask a parent the mpg (miles per gallon) of his/her vehicle. Draw and label that line C on your coordinate plane (use a third color if possible). Keep your drawing for tomorrow's work.</p>	<p>For today's work, use the coordinate plane that you completed yesterday. Assuming a gas price of \$2.75 per gallon, use your graph to project how much it would cost to drive 100 miles in each vehicle. Make a table showing these costs.</p> <p>Vehicle A has a maximum occupancy of 4 people, including the driver. Vehicle B has an occupancy of 7 people. Vehicle C has an occupancy of 5 people. If a group of 9 people need to use two of the vehicles to travel 100 miles, which two would you use in order to be the most cost-efficient? Explain your answer.</p>	<p>Complete the Ditch Digger problem (Review skills: coordinate plane, rate of change, ordered pairs)</p>
Reading		<p>Select a book of your choice and read for 30 minutes. Alternate: Read to a</p>	<p>Select a book of your choice and read for 30 minutes. Alternate: Read to a</p>	<p>Select a book of your choice and read for 30 minutes. Alternate: Read to a</p>	<p>Select a book of your choice and read for 30 minutes. Alternate: Read to a</p>

		younger sibling.	younger sibling.	younger sibling.	younger sibling.
Writing		<p>In a notebook: Start a journal that you will use during the time of the school closure. Respond to today's prompt: <i>How do you feel about being home today?</i></p> <p>Read this blog from Grammarly explaining the difference between formal and informal written communication.</p>	<p>Journal prompt: <i>What is the most challenging aspect of doing all your school work at home?</i></p> <p>Develop an outline for a formal letter that you will complete tomorrow. Using bullet statements, state whether you believe schools should re-open or remain closed. Write three statements that support your opinion.</p>	<p>Journal prompt: <i>How are you spending your free time during this school closure?</i></p> <p>Use the outline you developed yesterday to write a letter to the Governor explaining why you think schools should re-open or remain closed. Provide three reasons for your opinion. Follow the guidelines for formal writing from the blog you read on Monday. Read your completed letter to an adult.</p>	<p>Write a letter to an older relative. Tell them how you're doing and share with them some of the activities you have completed during the week. Address the envelope for the letter and ask an adult to mail it for you.</p>
Science		Complete the lessons in Disney's Imagineering Project (note: if you are unable to complete all the lessons, then simply complete what you can).			
Social Studies		<p>Read the Scholastic article, Girl Hero of the American Revolution. Tell an adult what inspires you about Sybil's actions.</p>	<p>Watch this YouTube video showing a portion of Malala Yousafzai's speech when she accepted the Nobel Peace Prize. Malala was a teenage girl who stood for the right of all children to have an education. Discuss the video with an adult.</p>	<p>For the last two days, you have learned about two teenagers who did what they could to make a difference. During this current challenge in the US and worldwide, how can teenagers step forward and make a difference? Discuss your ideas with an adult.</p>	

<p>Physical Health</p>		<p>Outdoor option: With adult permission, go on a bike ride or play a ball game.</p> <p>Indoor option: Play your favorite music and have a dance party with your family!</p>	<p>If you have younger siblings: Lead them in a game of Simon Says, and play Follow the Leader or Mirror (face your sibling and match every action they make). If you don't have younger siblings, then do the following indoor exercises - Jumping Jacks, Burpees, Balancing on one leg and then the other (challenge: do knee bends while balancing on one leg).</p>	<p>Outdoor option: With your parent's permission, go for a walk or run around your neighborhood.</p> <p>Indoor option: Follow a YouTube exercise video.</p>	<p>Watch any YouTube video on how to juggle three balls. Follow the video and practice to see if you can juggle 3 balls. Challenge: Can you juggle more than three?</p>
<p>Extra Activities</p>		<p>With adult permission, make a meal or bake a treat for your family.</p>	<p>Play Chess, Scrabble, or Boggle with your family. If these games aren't available, then choose another game that challenges you and play it with your family.</p>	<p>For 10-15 minutes, explore some of the NASA photographs that interest you the most. Share with an adult something that you enjoyed from the pictures.</p> <p>Discuss with an adult whether you believe man will visit Mars within the next 30 years (by 2050). Do you think the experience of space exploration is worth the expense?</p>	<p>Play a game of Charades, Taboo, or Pictionary with your family. (Note: if you don't have the Pictionary or Taboo games, then look up the rules online and make your own version!)</p>