

Activities for Alternative Methods of Instruction (AMI)

Name \_\_\_\_\_

	DAY 31 ACTIVITIES - (Complete each subject on a separate sheet of paper)
English Language Arts & Social Studies	AMI 31-45 2020 Pandemic Journal  PROJECT OVERVIEW  Directions: The following exploration combines your Social Studies and English classes into one class. Your job is to chronicle the changes you observe as your community, the country, and the world respond to Covid19. Your unique daily observations will serve as primary sources to the people in the future. Be authentic. Be honest. Be reflective. Pay attention to the details. Each day, take note of what you are seeing and hearing on the news, anong your friends, within your family, and in your community. Feel free to use video, written language, poetry, sketches, or other means of expression as you document your experience during this global pandemic. The questions below are to guide your thinking, but you are encouraged to ask your own. too. Asy our effect on your own full also study and reflect on pandemics of the past, and you will analyze how you have developed throughout this experience. When we return to school, you will be asked to turn in your journal of daily observations.  [Inspired by Bryan Shaw, UCBHSSP Teacher Leader]  DAY 21 INSTRUCTIONS  Reading Requirement:  See ELA / Social Studies chunked articles at the bottom of this packet. Read sections 1 and 2 of article 1. [Also, feel free to conduct any additional research of your choosing and incorporate it into your journal]  Guiding Questions for Journal:  Describe how you first learned of coronavirus. I remember first hearing of coronavirus when At first, I felt  As of right now, social distancing has inspired us to As fright now, social distancing has inspired us to As fright now, social distancing has inspired us to As fright now, social distancing as you will need to the coronavirus and social distancing so far?  As of right now, social distancing has inspired us to
Science	How scientists conduct experiments determines if the outcomes can be used or not. There are variables in experiments that can change in an experiment. Some will change and some will need to be kept the same. The one variable that is purposely changed to test is called the independent variable. It is graphed on the x-axis. This is the variable the scientist has control over. In other classes, this would be called "the cause". Another variable scientists have to keep track of is the dependent variable. When the independent variable is changed by the scientist, the dependent variable will respond by changing. In other classes, this is called "the effect". Scientists graph the dependent variable on the y-axis.





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There are variables that need to never change so the experiment can test one thing at a time. Those variables are to be controlled; hence, those are called control variables.

Use the table to answer the following questions. You may use the vocabulary chart to help you.

- 1. What is the independent variable in the experiment? The independent variable in the experiment is \_\_\_\_\_\_.
- 2. What is the dependent variable? The dependent variable is \_\_\_\_\_.
- 3. Based on this experiment and what you know about exercising, predict how the students' heart rates would change while they are resting after a long run.
  - I predict the students' heart rates will \_\_\_\_\_ while they are resting after a long run.
- 4. What guiding question do you believe this experiment might be testing? I believe the questions this experiment is testing are \_\_\_\_\_.
- 5. What does the data indicate about the increased physical activity and heart rate? The data indicates \_\_\_\_\_\_.

Three students conducted a controlled experiment to find out how walking and running affected their heart rates

Effect of Activity on Heart Rate (in beats per minute)							
Student	Heart Rate (at rest)	Heart Rate (walking)	Heart Rate (running)				
1	70	90	115				
2	72	80	100				
3	80	100	120				

The graph shows the temperature between noon and midnight in City A on a certain day.

The table shows the temperature, *T*, in degrees Fahrenheit, for *h* hours after noon in City B.

h	1	2	3	4	5	6
T	82	78	75	62	58	59

Math

- 1. Which city was warmer at 4:00 p.m.? \_\_\_was warmer by 4 pm.
- 2. Which city had a bigger change in temperature between 1:00 and 5:00 p.m.?

  \_\_\_ had a bigger change in temperature between 1 and 5 pm.
- 3. How much greater was the highest recorded temperature in City B than the highest recorded temperature in City A during this time? The temperature was \_\_\_ degrees higher in City B than City A.
- 4. Compare the outputs of the function when the input is 3. When the input is 3, the temperature in City A is \_\_\_ degrees, while the input in City B is \_\_\_ degrees.





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#### DAY 32 and 33- (Complete each subject on a separate sheet of paper)

#### English Language Arts & Social Studies

2020 Pandemic Journal Continued...

**Reading Requirement:** See ELA / Social Studies chunked articles at the bottom of this packet. Read section 3 of article 1. **Guiding Questions for Journal:** 

- What is open in your neighborhood? What is closed? How are these changes to our daily lives affecting you?
  \_\_\_\_\_\_ is (open/closed) in my neighborhood. These changes have affected my daily life by \_\_\_\_\_\_.
- After reading the chunk of the article, consider the following question: What were "death ships"? Why do you think they were "ordered out of the harbor"? "Death ships" were \_\_\_\_\_. I believe they were "ordered out of the harbor" because \_\_\_\_\_.
- Continue your Venn Diagram to analyze similarities and differences between the Black Death and COVID-19 outbreaks. Use evidence from the article and your
  journal to support your work.

The teacher has you do an experiment. You are told to plan a way to record what happens during the experiment and to make a graph. How do you know what to do? Science uses lots of charts and graphs and each type is used to show different types of information.

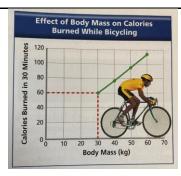
A data table is a way to record your observations and measurements in an organized way.

A bar graph is used to display data in a number of separate, or distinct, categories (for counted items, how many) A line graph is used to display data that shows how one variable (the dependent variable) changes in response to another variable (the independent variable). The line is continuous and lets you estimate values for points you did not test. (for rate of change)

#### Science







- 1. Using the line graph as a model, create a line graph for Experiment 2 OR Experiment 3 in the example data table. Be sure to include your scale and titles.
- 2. You read in the newspaper that a total of 4 cm of rain fell in June, 2.5 cm of rain fell in July, and 1.5 cm of rain fell in August.
  - a. What type of graph would you use to display this data?
  - b. Create your graph.



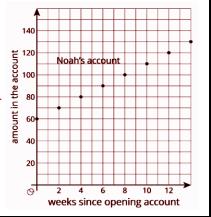
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Noah is depositing money in his account every week to save money. The graph shows the amount he has saved as a function of time since he opened his account.

Elena opened an account the same day as Noah. The amount of money E in her accounts is given by the function  $\Box = 8\Box + 60$ , where w is the number of weeks since the account was opened.

Math

- 1. Who started out with more money in their account? Explain how you know. \_\_\_ started out with more money in their account. The graph shows \_\_\_.
- 2. Who is saving money at a faster rate? Explain how you know. The graph shows that \_\_ is saving money at a faster rate by \_\_.
- 3. How much will Noah save over the course of a year if he does not make any withdrawals? He will save \_\_\_ over a year.
- 4. How long will it take Elena to save that much? It will take Elena \_\_ to save the equivalent to Noah.



#### DAY 34 ACTIVITIES - (Complete each subject on a separate sheet of paper) 2020 Pandemic Journal Continued... Reading Requirement: See ELA / Social Studies chunked articles at the bottom of this packet. Read section 4 of article 1. **English Guiding Questions for Journal:** Language What does your neighborhood look like? Are people walking around? How have people's thoughts about travel changed? Arts can be described as \_\_\_\_\_. People in my neighborhood are \_\_\_\_\_. People's thoughts about travel (have/ haven't) changed because \_ & After reading the chunk of the article, consider the following question: Why do you think some people believed at first Christians were immune to the disease? Social believe some people believed at first Christians were immune to the disease because Studies Continue your Venn Diagram to analyze similarities and differences between the Black Death and COVID-19 outbreaks. Use evidence from the article and your journal to support your work.



	A force is a push or a pull. Forces exist in many systems we use daily. One system is called a hydraulic system.  You have probably seen them at a car repair shop lifting a vehicle or have felt a hydraulic system work when the	Hydraulic Lifts
Science	brakes are pressed in the car. A hydraulic (hydro - fluid) uses liquids to transmit pressure in a system. A hydraulic system multiplies force by applying the force to a small surface area. The increase in pressure is then transmitted to another part of the fluid which pushes on a larger surface area.  Graph 2.2 Shows a hydraulic lift.  1. Suppose a force of 1,000 N is applied to both lifts. Use the graph to determine the lifting force of each lift. Lift A has a lifting force of Lift B has a lifting force of  2. For Lift A, how much force must be applied to lift a 12,000 N object? To lift a 12,000 N object, N must be applied.  3. By how much is the applied force multiplied for each lift? (compare applied force to lifting force)  The applied force of Lift A is compared to the lifting force which is  4. What does the rate of change (slope) tell us about each lift? The slope of Lift A tells us  The slope of Lift B shows that  5. Which lift would you choose if you wanted to produce the greater lifting force? Defend your answer. I would choose Lift because	12,000 10,000 8,000 6,000 2,000 2,000 1,000 2,000 3,000 Applied Force (N)
	<ol> <li>A candle is burning. It starts out 12 inches long. After 1 hour, it is 10 inches long. After 3 hours, it is 5.5 inche a. When do you think the candle will burn out completely? I predict the candle will completely burn out b. Is the height of the candle a function of time? If yes, is it a linear function? Explain your thinking. The I The height of the candle is (not) a linear function because</li> </ol>	inhours/days.
Math	<ul> <li>We have two stacks of styrofoam cups. (see picture on the right)</li> <li>One stack has 6 cups, and its height is 15 cm.</li> <li>The other stack has 12 cups, and its height is 23 cm. How many cups are needed for a stack with a height of 50 cm? One needs cups for a stack with the of 50 cm.</li> </ul>	e height



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### DAY 35 and 36 ACTIVITIES - (Complete each subject on a separate sheet of paper)

#### English Language Arts & Social Studies

2020 Pandemic Journal Continued...

**Reading Requirement:** See ELA / Social Studies chunked articles at the bottom of this packet. Read section 5 of article 1. **Guiding Questions for Journal:** 

- How is today different from yesterday for you, your family, our nation, the world? What has changed? Today is different for (me/my family/our nation/our world) because \_\_\_\_\_.
- After reading the chunk of the article, consider the following question: Most people lived near farm animals during the Middle Ages. How do you think this affected the spread of the disease?

\_\_\_\_ affected \_\_\_\_\_. OR People living near farm animals affected the spread of the disease by \_\_\_\_\_

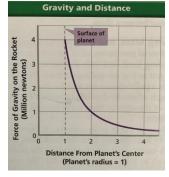
Continue your Venn Diagram to analyze similarities and differences between the Black Death and COVID-19 outbreaks. Use evidence from the article and your journal to support your work

Gravity is a non-contact force. This force attracts all objects toward each other. Newton's law of universal gravitation states that every object in the universe attracts every other object. The strength of the force of gravity between two objects depends on two factors: the masses of the objects and the distance between them.

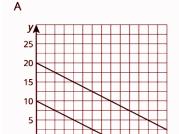
As a rocket leaves a planet's surface, the force of gravity between the rocket and the planet changes. Use the graph to answer the questions.

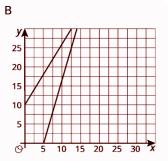
#### Science

- 1. What two variables are being graphed? Label the dependent variable. The two variables being graphed are \_\_ and \_\_. \_\_ is the dependent variable.
- 2. What are the units of the independent variable? The units of the independent variable are \_\_\_.
- 3. What is the force of gravity on the rocket at the planet's surface? The force of gravity on the rocket at the planet's surface is \_\_\_\_.
- 4. What is the force of gravity on the rocket at a distance of two units (twice the planet's radius from its center)? The force of gravity on the rocket at a distance of two units is \_\_\_.
- 5. In general, how does the force of gravity pulling on the rocket change as the distance between it and the planet increases? The force of gravity pulling on the rocket \_\_ as the distance between it and the planet increases.

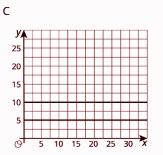


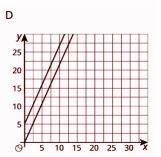
### Math





Which one doesn't belong? Give a reason why each one might not belong. \_\_\_doesn't belong because \_\_.







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#### DAY 37 ACTIVITIES - (Complete each subject on a separate sheet of paper) 2020 Pandemic Journal Continued... Reading Requirement: See ELA / Social Studies chunked articles at the bottom of this packet. Read section 6 of article 1. Guiding Questions for Iournal: Do you see any examples of racism, injustice, or inequality in any of the events that happened today? Alternatively, do you see any examples of equality, fairness, or **English** respect? (Locally, at the state level, nationally, or the world?) Language An example of \_\_\_\_\_ is \_\_\_\_\_. OR One example of (racism/ injustice/ inequality) (locally/ at the state level/ nationally/ in the world) is \_\_\_\_\_. An example of Arts & (equality/fairness/respect) (locally/ at the state level/ nationally/ in the world) is After reading the chunk of the article, consider the following question: Did the Black Death spread to other countries faster or slower than COVID-19? Underline textual Social evidence that helped you reach your conclusion. Explain some of the different ways that coronavirus has affected behaviors. **Studies** I believe the Black Death spread (faster/ slower) than COVID-19 because \_\_\_\_. Some ways the coronavirus has affected behaviors are \_\_\_\_. □ Complete your Venn Diagram to analyze similarities and differences between the Black Death and COVID-19 outbreaks. Use evidence from the article and your journal to support your work. **View From Space** Like Earth, the moon moves through space in two ways. The moon revolves around Earth and also rotates on its own 7. Third axis. When you see the moon in the sky, sometimes it appears round. Other times you see only a thin sliver, or crescent. The different shapes of the moon you see from Earth are called phases. Because the sun lights the moon, half the moon is almost always in sunlight. However, since the moon revolves around Earth, you see the moon from 8. Waning Crescent different angles, The half of the moon that faces Earth is not always the half that is sunlit. 1. During what phases are the moon, Earth and sun aligned in a straight line? They are aligned during the following Science 2. Why can we not see the moon during a New Moon phase? During the New Moon phase, the moon can not be seen because . 2. Waxing 3. This model shows the movement of the moon around Earth. Does it clearly show the image of the moon as we see it? Yes/No How could this model be improved to give the reader more information? The model could be 3. First improved by \_\_\_. Here are graphs representing three linear relationships. These relationships could also be represented with equations. For each statement below, decide if it is true or false. Explain your reasoning. 1. (4,0) is a solution of the equation for line m. 2. The coordinates of the point G make both the equation for line m and the equation for line n3. $\square = 0$ is a solution of the equation for line n. Math 4. (2,0) makes both the equation for line m and the equation for line n true. 5. There is no solution for the equation for line *l* that has $\square = 0.5$ . 6 6. The coordinates of point *H* are solutions to the equation for line *l*. 7. There are exactly two solutions of the equation for line *l*. 8. There is a point whose coordinates make the equations of all lines true. The statement is true/false because \_\_\_.



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#### DAY 38 and 39 ACTIVITIES - (Complete each subject on a separate sheet of paper) 2020 Pandemic Journal Continued... Reading Requirement (NEW ARTICLE): See ELA / Social Studies chunked articles at the bottom of this packet. Read section 7 of article 2. **English** Guiding Questions for Journal: Spanish Flu and COVID-19 Language ☐ What did you see today that gave you hope? Anxiety? Fear? (In person, in the news, or on social media?) How has coronavirus affected Arts your personality? Throughout this experience, I have noticed that \_\_\_\_\_\_, and this has made me think that \_ & After reading the chunk of the article, consider the following question: What is something surprising or shocking you learned from this Social section? Explain. The part where \_\_\_\_\_\_ happened surprised me because Studies Begin constructing a Venn Diagram to analyze similarities and differences between the Spanish Flu and COVID-19 outbreaks. Use evidence from the article and your journal to support your work. Can you imagine, studying how planets move without having a telescope? Johannes Kepler was a research astronomer starting in **Speed of Planets** 1594, fourteen years before the telescope existed! The telescope was invented in 1608! Johannes Kepler had a very interesting theory. He believed the planets moved around the sun in elliptical orbits, not in perfect circles. When Kepler finally got to use a telescope, he verified his research was correct. 40 Johannes Kepler discovered a relationship between the speed of a planet and its distance from the sun. Speed (km/s) Use the graph to answer the following questions: According to the graph, what is Earth's average speed? Earth's average speed is \_\_\_. Science 20 Which is closer to the sun, Mercury or Mars? Which moves faster? \_\_\_ is closer to the sun. \_\_\_ moves faster. 3. What is the relationship between a planet's speed and its average distance from the sun. The closer/farther the planet is from the sun, the speed . 100 200 300 400 500 600 700 800 4. The planet Uranus is about 2,900 million km from the sun. Predict whether its speed is greater or less than Jupiter's speed. **Average Distance From Sun** Defend your answer. I predict its speed is greater/less than Jupiter's speed because . . Decide whether or not $\Delta ABC$ and $\Delta DEF$ are congruent. Explain your reasoning The two triangles are (not) congruent because \_\_\_. Math



				DAY 4	O ACTIVII	IES - (Complete 6	each subject	on a separa	ite shee	t of paper)			
English Language Arts & Social Studies	What would you have done differently to prepare for social distancing had you known coronavirus was going to affect our society so drastically? Had I known about social distancing ahead of time, I would have  After reading the chunk of the article, consider the following questions:  Under Why is the flu so contagious? The flu is so contagious because												
Science	Annual Sunspot Numbers  Year Sunspot Number  1972 68.9 1988 100.2 1974 34.5 1990 142.6 1976 12.6 1992 94.3 1978 92.5 1994 29.9  Our sun does not have a solid surface. Rather, the sun is a ball of glowing gas all the way through. Early observers noticed dark spots the sun's surface. These became known as sunspots. Sunspots look small but they can be larger than Earth. Sunspots are areas of gas on the sun's surface that are cooler than the gases around them. Cooler gases don't emit as much light as hotter gases, which is why sunspots look darker than the rest of the surface Where the particles hit Earth's atmosphere, powerful electric currents are created that cause the gas molecules in the atmosphere to glow. These are the Northern Lights. When the Solar winds are too great, the particles can cause magnetic storms. Magnetic storms can disrupt radio, telephone, and television signals.  Use the data in the table of Annual Sunspot Numbers to make a graph.						e areas of gas which is why are created						
Math	Rectal	Find	Rectangle A B C D E	s of each	rectangle and Width 8 ½	by 11-inch piece of pad enter them in the ta  Length  11  other? Explain how you cach other because	able.		so on, as	8½ inches	the diagra	m.	



	DAY 41 and 42 ACTIVITIES - (Complete each subject on a separate sheet of paper)
English Language Arts & Social Studies	2020 Pandemic Journal Continued  Reading Requirement: See ELA / Social Studies chunked articles at the bottom of this packet. Read sections 9 and 10 of article 2.  Guiding Guestions for Journal:  How has this event challenged you? Be specific. Some of this experience has been challenging, for instance, has challenged me because  After reading the chunk of the article, consider the following question: How fast did some people die of this flu?  Why was it called the "Spanish Flu"? It was called the Spanish Flu because  What was so unusual about the Spanish Flu? One unusual aspect of the Spanish Flu was that it  Why do you think it was hard back then to figure the exact death toll? Death tolls were hard to configure because  Continue your Venn Diagram to analyze similarities and differences between the Spanish Flu and COVID-19 outbreaks. Use evidence from the article and your journal to support your work.
Science	Use the information from Day 27 and the graph you created on Day 27.  1. Compare your sunspot graph with the Magnetic Storms Graph. What relationship can you infer between periods of high sunspot activity and magnetic storms? Respond using CERJ. Claim: One can see that the periods of high sunspot activity and magnetic storms are related by Evidence: See the graphs. Reasoning: The graphs shows that Justification: The data supports the idea that  2. Suppose you are an engineer working for an electric power company. Your community is experiencing occasional blackouts. Write a short public service announcement explaining the relationship between sunspot number and electrical disturbances on Earth.  Attention: With the surge of recent blackouts in our area, it may interest you to know that
Math	Sails come in many shapes and sizes. The sail on the left is a triangle. Is it a right triangle? Explain your reasoning. (Hint: Pythagorean Theorem)  The sail is (not) a right triangle because



	DAY 43 ACTIVITIES - (Complete each subject on a separate sheet of	paper)			
English Language Arts & Social Studies	<ul> <li>2020 Pandemic Journal Continued</li> <li>Reading Requirement: See ELA / Social Studies chunked articles at the bottom of this packet. Read sections 11 and 12 Guiding Questions for Journal: <ul> <li>How has this event changed your thoughts and feelings about your future? How has it inspired you to think differed distancing has made me think about my future because Now, because of this event is different from how I used to think, which was</li> <li>After reading the chunk of the article, consider the following question: What role did World War I play in making the worse because"</li> <li>What does it mean to quarantine people? What is the strategy for this? Quartining is a method of</li> <li>Continue your Venn Diagram to analyze similarities and differences between the Spanish Flu and COVID-19 outbre to support your work.</li> </ul> </li> </ul>	ntly about yo , I am thinkin e outbreak w	g rorse? [World War 1 mad	, which	
	When Christopher Columbus sighted land in 1492, he didn't know what he had found. Instead of a map he had used a compass for navigation. A compass is a device that has a magnetized needle that spins freely. A compass needle usually points north. During the time of Columbus, no one knew why the compass always pointed the same direction. An English physician hypothesized that the Earth was a giant magnet and that is they the compass behaved	Magnetic North Pole Movement			
	as it did. The physician was correct. Just like a bar magnet, Earth has a magnetic field surrounding it and two magnetic poles. Earth's magnetic poles do not match its geographic poles. The angle between the geographic north and the north to which a compass needle points is called magnetic declination. This is a natural occurrence in magnets.	Year of Reading	Distance Moved Since Previous Reading (km)	Average Speed (km/yr)	
	Earth's magnetic poles move slowly over time.  The data in the table show the position of Earth's magnetic north pole in specific years.  1. What is the trend in the speed of the pole's movement? The trend in the speed of the pole's movement is		420	9.5	
Science			150	10.7	
	2. What is the total distance the pole has traveled over the time shown? The pole has traveled total	1973	120	10.9	
	kilometers. 3. Using this data, predict the average speed of the pole's movement between 2001 and 2010. Explain how	1984	120	10.9	
	you determined your answer. I predict the average speed of the pole's movement between 2001 and 2010 to be To solve this	1994	180	18.0	
	problem, I.	2001	287	41.0	
Math	These are drawings of three-dimensional objects.  Which one doesn't belong?  Explain a reason why each does not belong.  Object doesn't belong because				





	DAY 44 and 45 ACTIVITIES - (Complete each subject on a separate sheet of paper)
English Language Arts & Social Studies	2020 Pandemic Journal Continued  Reading Requirement: See ELA / Social Studies chunked articles at the bottom of this packet. Read sections 13 and 14 of article 2.  Guiding Questions for Journal:  Read your journal entries. Think of yourself as the main character in a story. Analyze how you and the pandemic have developed and interacted with each other over the course of this journaling experience: Analyze how particular lines of dialogue or incidents in your story propelled action, revealed aspects of yourself as a character, or provoked a decision from someone in your story.  ☐ After reading the chunk of the article, consider the following question: How is COVID-19 affecting our economy similar to the Spanish Flu? COVID-19 is similar to the Spanish Flu, economically, in that it  ☐ No cure was invented for Spanish Flu, yet it eventually came to an end. How was that possible? Despite not having a cure, Spanish Flu still ended because
Science	Technological advances make many jobs easier to perform. They also increase the amount of work that people can accomplish. For example, farmers can plow more land in less time by using a tractor rather than a horse-drawn plow. However, in some cases, the advance of technology can cause people to lose their jobs. If farmers cannot afford expensive equipment, such as tractors and irrigation systems, their farms may not be as productive as farms that can afford the equipment. Eventually, less productive farms may go out of business and the farmers may lose their jobs.  The graph shows the percentage of workers who worked on farms between the years 1860 and 2000. Use the graph to answer the questions.  1. What factor is plotted on the horizontal axis? is plotted on the horizontal axis.  2. What factor is plotted on the vertical axis? is plotted on the vertical axis.  3. Which axis is the independent variable plotted on? The independent variable is plotted on the axis.  4. Of the years shown on the graph, in which year was the percentage of farm workers highest? The percentage of farm workers was highest in  5. By how much did the percentage of farm workers change between 1860 and 2000? The percentage of farm workers changed by between 1860 and 2000.  6. What trend does the graph show? Base your answer on what you know about technological advances. The graph shows that
Math	The scatter plot shows the weight and fuel efficiency data used in an earlier lesson along with a linear model represented by the equation $y = -0.0114x + 41.3021$ .  1. What is the value of the slope and what does it mean in this context? The value of the slope is It means that  2. What does the other number in the equation represent on the graph? What does it mean in context? The other number represents It means that  3. Use the equation to predict the fuel efficiency of a car that weighs 100 kg would be mpg.  4. Use the equation to predict the weight of a car that has a fuel efficiency of 22 mpg. The weight of a car that has a fuel efficiency of 22 mpg would be kg.



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English and Social Studies: Article 1 (Days 31-37)

Primary Source: A Priest Tells about the Black Death, 1348 by Henry Knighton, adapted by Newsela

1	A primary source is a historical document written or created during the event being studied. You are about to read a primary source about the Bubonic Plague or the "Black Death." It was written by Henry Knighton, a historian and priest at St. Mary's of Leicester in England.	What kind of primary sources do you think people will examine in the future to learn about the current COVID-19 outbreak? I believe in the future people will
2	The Black Death was one of the worst plagues that spread death to many countries. From 75 million to 200 million people in Eurasia and Europe died in the years between 1346 and 1353. The Black Death is thought to have come from rats and started in the plains of Central Asia. It moved west along the Silk Road, maybe with Mongol troops, reaching Eastern Europe by 1343. Cargo ships bringing riches from the east also brought rats that had a bacteria, Yersina Pestis, in their blood. Fleas on the rats bit them and drank the blood filled with Yersinia Pestis. Fleas then jumped onto humans and bit them. The Yersinia Pestis began killing humans by attacking the lungs and turning them to liquid. A cough spread the bacteria to other humans. The bacteria could also stop the blood from clotting, causing victims to bleed to death. Touching the blood or body of a sick person also spread the Black Death, which got its name because many victims were covered with black boils. There were at least two kinds of plague: pnuemonic (lung) plague or bubonic (clotting) plague.	What similarities do you see in the way the plague and COVID-19 both spread? Underline your evidence and are similar because they both
3	The Black Death arrived in Europe by sea in October 1347, when 12 trading ships docked in Sicily after a long journey through the Black Sea. Most of the sailors were dead and those that were still alive were very sick. The "death ships" were ordered out of the harbor, but it was too late, and thousands in Sicily died. The expelled ships brought the disease to other ports in Italy and France. Over the next five years, the Black Death would kill almost half of the population of Europe, or 25 million people. Here is an excerpt from Henry Knighton's account:	What were "death ships"? Why do you think they were "ordered out of the harbor"? "Death ships" were I believe they were "ordered out of the harbor" because
4	"48 Million People Died Suddenly"- "In 1348 and 1349, many millions of people died throughout the world. It began first in India and moved west to Tarsus, Turkey, killing Muslims first and then Christians and Jews. The office of the pope believed that 48 million people died suddenly in those distant countries of Asia (mostly non-Christians) in the space of one year, from Easter to Easter. This did not include the death of Christians. When the king of Tarsus, a Muslim, saw this sudden loss of life among his people, he and his nobles set out to travel to the pope at Avignon, France. They wanted to become Christian and be baptized by the pope. The king believed that his people were being punished because they had not accepted Jesus Christ as the son of God. However, when he had completed 20 days of his journey, he heard that the fatal plague had killed many Christians, too. So they turned back to return to Tarsus. But Christians, who had been following the king and his people, attacked. They killed 1,312 people in Avignon the first day and 400 more on the second.	Why do you think some people believed at first Christians were immune to the disease?  I believe some people believed at first Christians were immune to the disease because
	Then this most terrible plague came to the coast of England. It went through Southampton and came to Bristol. The cruel death took just two days to spread and almost the whole town was wiped out.	
5	"The Scots Heard That The Plague Was Killing Their Enemy" -In the same year, a deadly sickness killed sheep throughout the country. In one place more than 5,000 sheep died in a single pasture. Their bodies were so decayed that no animal or bird would touch them. Because there was the fear of death, animals were sold at a low price. Sheep and cattle roamed through the fields eating the corn and no one stopped them. The Scots heard that the plague was killing their enemy, the English. They felt God was punishing England. So they gathered in the forest of Selkirk, near the border, planning to invade England. However, the monstrous plague suddenly came upon them and within a short space of time around 5,000 died. They retreated to Scotland, but the English attacked and killed many of them.	Most people lived near farm animals during the Middle Ages. How do you think this affected the spread of the disease?  People living near farm animals affected the spread of the disease by



Activities for Alternative Methods of Instruction (AMI)

"All Parties Feared The Spread Of The Plague" -At that time there were not enough priests in churches for masses, services, prayers for dying, or funerals. The plague moved through Dorset seaport, on to Devon, Somerset and up to Bristol. So the people of Gloucester stopped people escaping from Bristol. They feared the breath of those who had lived among the dying would spread the sickness. But in the end Gloucester, and then Oxford and London too, and finally the whole of England were so violently attacked that almost 90 percent of both men and women died. Cases in the courts of the king came to a stop, for all parties feared the spread of the plague. When the churchyards were not large enough to bury the dead, fields were used for the burials of the dead.

Did the Black Death spread to other countries faster or slower than COVID-19? Underline textual evidence that helped you reach your conclusion.

I believe the Black Death spread (faster/slower) than COVID-19 because \_\_\_\_\_.

Hardly anyone dared to have anything to do with the sick. They fled from the things left by the dead, which had once been precious but were now poisonous to health. People who one day had been full of happiness on the next were found dead. Victims had little black boils scattered over their whole body. Of these people very few, indeed hardly any, recovered life and health. The plague, which began in Bristol on the feast of the Assumption of the Virgin [15 August] and in London around Michaelmas [29 September], raged for more than a year in England and completely emptied many villages.

In the following year it laid waste to the Welsh and English in Wales, and then it moved to Ireland, where the English residents were cut down in great numbers. But the native Irish living in the mountains and uplands were scarcely touched until 1357, when it took them unawares and killed them, too."

Draw a Venn Diagram to analyze similarities and differences between the Black Death and COVID-19 outbreaks. Use evidence from the text to support your work.

# ELA and Social Studies: Chunked Article 2 (Days 39-45) The 1918 flu pandemic that killed millions

by History.com adapted by Newsela

7	The influenza or flu pandemic of 1918 to 1919, the deadliest in modern history, infected an estimated 500 million people worldwide — about one-third of the planet's population at the time — and killed an estimated 20 million to 50 million victims. More than 25 percent of the U.S. population became sick, and some 675,000 Americans died.	What is something surprising or shocking you learned from this section? Explain
	The 1918 flu was first observed in Europe, the United States, and parts of Asia, before swiftly spreading around the world. Surprisingly, many victims were young, otherwise healthy adults. At the time, there were no effective drugs or vaccines to treat this killer flu strain or prevent its spread. In the U.S., citizens were ordered to wear masks, and schools, theaters and other public places were closed. Researchers later discovered what made the 1918 pandemic so deadly: The influenza virus invaded victims' lungs and caused pneumonia.	I learned/was surprised by
8	Flu facts- Influenza, also called the flu, is a virus that attacks the respiratory system. The virus is highly contagious. When an infected person coughs, sneezes, or talks, respiratory droplets are generated and transmitted into the air and can then be inhaled by anyone nearby. Additionally, a person who touches something with the virus on it and then touches his or her mouth, eyes, or nose can become infected.  During the last three decades, between 3,000 and 49,000 people have died annually because of the flu, according to the Centers for Disease Control and Prevention (CDC). Some people such as young children, people over age 65, and pregnant women face a higher risk of getting sick. Also vulnerable are people with certain medical conditions, such as asthma, diabetes, or heart disease. A flu pandemic, such as the one in 1918, occurs when an especially intense new influenza strain for which there's little or no immunity appears and spreads quickly from person-to-person around the globe.	Why is the flu so contagious? The flu is so contagious because  What is pneumonia and why does it kill some people? Pneumonia is and it kills some people because



Activities for Alternative Methods of Instruction (AMI)

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9	The flu strikes far and wide- The first wave of the 1918 pandemic occurred in the spring and was generally mild. The sick, who experienced such typical flu symptoms as chills, fever and fatigue, usually recovered after several days, and the number of reported deaths was low. However, a second, highly contagious wave of influenza appeared in the fall of that same year. Victims died within hours or days. Their skin turned blue and their lungs filled with fluid, causing them to suffocate.	How fast did some people die of this flu? Some people died Why was it called the "Spanish Flu"?
	It's unknown exactly where the particular strain of influenza that caused the pandemic came from. It became known around the world as the "Spanish Flu" because Spain was one of the earliest countries to be hit hard by the disease.	It is known as the Spanish Flu because
10	One unusual aspect of the 1918 flu was that it struck down many previously healthy younger men and women – a group normally resistant to this type of illness. In fact, according to journalist Gina Kolata, more U.S. soldiers died from the 1918 flu than died in battle during World War I (1914-1918).	What was so unusual about the Spanish Flu? This flu was unusual because
	Although the death toll of the 1918 flu is often estimated at 20 million to 50 million victims worldwide, other estimates run as high as 100 million. The exact numbers are impossible to know due to a lack of medical record-keeping in many places. What is known, however, is that few locations were immune. In the U.S., victims ranged from residents of major cities to those of remote Alaskan communities.	Why do you think it was hard back then to figure the exact death toll? It was difficult because
11	<b>Fighting the flu</b> -When the 1918 flu hit, doctors and scientists were unsure what caused it or how to treat it. Unlike today, they had no effective vaccines or antivirals, drugs that treat the flu.	What role did World War I play in making the outbreak worse?
	Complicating matters was the fact that World War I had left parts of America with a shortage of physicians and health workers. Moreover, many of these medical personnel then came down with the flu themselves. In some areas, hospitals were so overloaded with flu patients that schools and private homes had to be converted into makeshift hospitals, some of which were staffed by medical students.	WWI caused
12	Officials in some communities quarantined the sick. They ordered citizens to wear masks and shut down public places, including schools, churches and theaters. People were advised to avoid shaking hands and to stay indoors. Libraries put a halt on lending books, and laws were even passed to make spitting illegal.	What does it mean to quarantine people? What's the strategy for this? To quarantine people means A strategy for this is
13	The flu takes a heavy toll on society - The flu took a heavy human toll, wiping out entire families and leaving countless widows and orphans in its wake.  The outbreak was also detrimental to the U.S. economy. Many businesses were forced to shut down because so many employees were sick. Basic services such as mail delivery and garbage collection were affected, and in some places there weren't enough farm workers to harvest crops.	How is COVID-19 affecting our economy similar to the Spanish Flu?COVID-19 is affecting our economy in a similar fashion by
14	Flu pandemic finally ends- By the summer of 1919, the flu pandemic came to an end. Those people who were infected had either died or developed immunity. Almost 90 years later, in 2008, researchers announced they'd discovered what made the 1918 flu so deadly. It was a group of three genes that enabled the virus to weaken a victim's bronchial tubes and lungs, so that pneumonia easily developed.	No cure was invented for Spanish Flu, yet it eventually came to an end. How was that possible?
	Since 1918, there have been several other influenza pandemics, although none have been quite as deadly. One pandemic from 1957 to 1958 killed around 2 million people worldwide, including some 70,000 in the United States. Another flu pandemic from 1968 to 1969 killed approximately 1 million people, including some 34,000 Americans. More than 12,000 Americans died during the H1N1 (or "swine flu") pandemic that occurred from 2009 to 2010.	The pandemic came to an end by
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Draw a Venn Diagram to analyze similarities and differences between the Spanish Flu and COVID-19 outbreaks. Use evidence from the text to support your work.