



VAR MS Home Learning - Structure of Daily Activities

End of Year Homeroom Celebrations

Homeroom	Time	Zoom Link	Password
MoState	Wednesday 1 pm - 3 pm		
UNCW	Wednesday 12-1		

8th

Content	Suggested Time	Primary Resource	Day 1	Day 2	Day 3
ELA	1 hour	Amplify GreatMinds Knowledge on the Go	1. This week you will be writing a creative short story to have a clear beginning, middle, and end. It will be submitted on Amplify on the Advanced Story Writing Unit, sub-unit 1, lesson 1. This story needs to be at minimum 3 paragraphs, but please push yourself	1. Continue work on short story	1. Complete short story and make sure it has correct grammar and spelling.

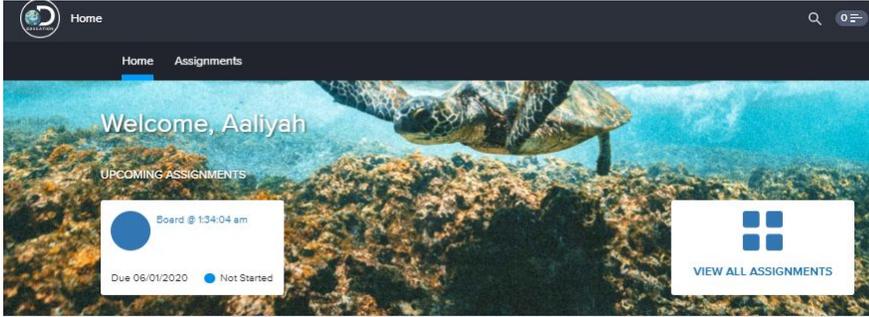
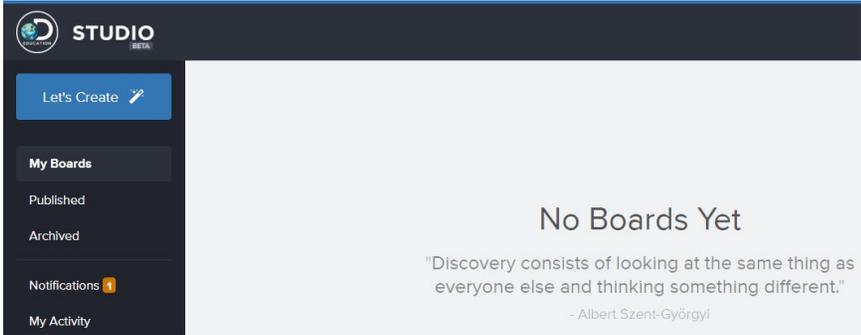


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			<p>for more as it is a story and this should be fun!</p> <p>2. If you have a short story idea now and it is school appropriate, you may get started, otherwise you may start with this prompt: Something is shocking or different outside of a window. What is it, and how do your characters react? You may start with something like “Outside my window, I was shocked to see...”</p> <p>*I’m looking for creativity, a great build of characters, and descriptive writing! Bonus points for figurative language :)</p>		
Math	1 hour	GreatMinds Knowledge on the Go ALEKS	<p>1. Read Factoring Polynomials Notes Day 1 (5 min)</p> <p>2.. Factoring Polynomials Day 1 Independent Practice (25 min)</p> <p>3. ALEKS (30 min)</p>	<p>1. Read Factoring Polynomials Notes Day 2 (5 min)</p> <p>2.. Factoring Polynomials Day 2 Independent Practice (25 min)</p> <p>3. ALEKS (30 min)</p>	<p>1. Read Factoring Polynomials Notes Day 3 (5 min)</p> <p>2.. Factoring Polynomials Day 3 Independent Practice (25 min)</p> <p>3. Exit Ticket</p>

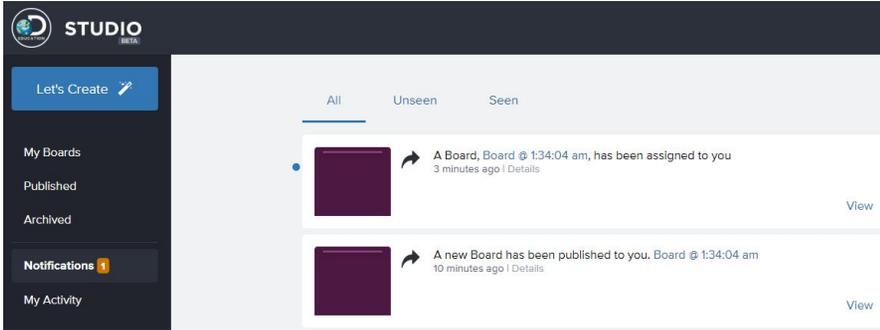


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				4. ALEKS (30 min)
Science	1 hour	<p>Discovery</p> <p>Login using your Clever account</p>	<p>1. Log onto Discovery Education. Look at your assignments at the top. You should see a new 'Board assignment'. Click on it.</p>  <p>2. Once you clicked on the 'Board' assignment Discovery will take you to Discovery 'Studio'. Click on your 'Notifications' button. Then you will see your assigned 'Let's talk about Coronavirus' Board.</p> 	



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			 <p>3. Go through the 'Let's talk about Coronavirus' Board. Read the attached articles and review the pasted images. Several links are copied onto the Studio Board that you must watch. After going through all the material on the Studio Board complete your Coronavirus (assessment) that is 15 questions long.</p> <p>* The Coronavirus (assessment) will not appear in your assignments until Monday; May 25. Once you have answered all 15 questions and submitted your work you are finished!</p>		
Social Studies	1 hour	IXL.com	Complete Skill: The Civil War: Gettysburg to the election of 1864 Quick Search: V7T	Complete Skill: The Civil War: the conclusion of the war Quick Search: JS5	Complete Skill: Source analysis: the Gettysburg Address Quick Search: Y2X
			Thank you for allowing me to be your teacher this year! I love you all so much - keep in touch! ❤️		



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<p>Related Arts</p>	<p>30 min</p>		<p>Art: Last week of school! Don't stress. Let your mind relax while you create generative art. Simply click hold and move your computer mouse to create beautiful patterns. http://weavesilk.com/</p> <p>PE:</p> <p>Activity: https://www.youtube.com/watch?v=gTVO5EyhSVk&list=PLtKFn2-K_dbAGVRVg6Yd98zPbhHb8JP RE&index=19&t=0s https://www.youtube.com/watch?v=bJoON3H1Fq0&list=PLtKFn2-K_dbAGVRVg6Yd98zPbhHb8JP RE&index=19</p> <p>Cool Down: Relaxation breathing for 2 minutes</p> <p>Technology: Go to your school email and send me an "end of</p>	<p>Art: Email me an art activity you think 8th graders should do next year.</p> <p>PE:</p> <p>Activity: https://www.youtube.com/watch?v=IFQmOZqvtWg&list=PLI37FJmOtrj20cgTm5hcfZ-0H1PLHCQIj&index=5&t=0s</p> <p>Technology: Free choice - Pick any website that we have used this year and spend 10-15 minutes on it. Email me thoadley@visionacademy-riverside.org What website did you pick and why?</p>	<p>Art: Last day of school! Google 3 fun summer art activities. Here are some ideas to get you started: https://www.messforless.net/summer-art-activities-for-kids/</p> <p>PE:</p> <p>Activity: https://www.youtube.com/watch?v=9862GUJWzTU&list=PLiQyPKgbtKze0CM8oFzWyDfw0xHs9fmBz&index=13&t=0s https://www.youtube.com/watch?v=yv2XE_Ut3KU&list=PLiQyPKgbtKzeTgB7v-0XE_Bg7IypHyEek&index=12&t=0s</p> <p>Technology: www.typing.com Continue practicing typing lessons. Take a 3 minute timed test. Please continue to practice typing skills throughout summer if possible. Remember to use home row finger positions.</p>
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			<p>year” letter. thoadley@visionacademy-riverside.org Please answer the following questions. What did you like most about technology? What was one valuable thing that you learned? What is something that you think I should keep in my plans for the incoming 8th graders next fall? Is there anything else you would like to tell me? (Please answer in complete sentences!) *8th graders - please feel free to keep in touch with me in the future. I would love to hear about your lives and your successes!</p>		
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9:00-10:30	Language Arts	If you are in need of your child's student logins to: Gmail Aleks Clever Amplify Discovery Please reach out to your child's homeroom teacher.	
10:30-11:30	Math		
11:30-12:00	Break		
12:00-12:30	Lunch		
12:30-1:30	Science		
1:30-2:30	Social Studies		
2:30-3:00	Related Arts		
Teacher Name	Teacher Email	Google Voice Number	Office Hours (Mon - Fri)
Ms. Sowell 7/8 Science U of L Homeroom	jsowell@visionacademy-riverside.org	317-426-8737	10:00am - 12:00pm
Mrs. Husted 7/8 Math NYU Homeroom	lhusted@visionacademy-riverside.org	317-661-1891	1:00pm - 3:00pm
Mrs. Hoock 7/8 Social Studies Mo State Homeroom	mhook@visionacademy-riverside.org	317-296-4341	10:00 am - 12:00 pm
Mrs. Abbott 7/8 ELA UNCW Homeroom	aabbott@visionacademy-riverside.org	317-798-0559	10:00am-12:00pm
Mrs. Gaskins 7/8 Resource	rgaskins@visionacademy-riverside.org	317-563-1754	11:00 am - 1:00pm
Mrs. Harger K-8 ELL	mharger@visionacademy-riverside.org	317-883-7259	1:00 pm - 3:00 pm
Mrs. Mulugeta, Principal	bmulugeta@visionacademy-riverside.org	317-662-0105	
Mr. Kempes, Dean of Academic	bkempes@visionacademy-riverside.org	215-688-6082	



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Mr. Nelson, Dean of Culture	rnelson@visionacademy-riverside.org	619-940-6386	
Ms. Buchta, Social Worker	sbuchta@visionacademy-riverside.org	317-662-0211	

- **Office Hours:** *Students may call a teacher during these times to receive one on one support for their work. We recommend that students e-mail their teachers to schedule a set time that they can talk to their teachers during this time.*
- **Zoom Meetings:** *These are times that teachers will instruct students via video conferencing. Students are expected to attend the Zoom Conferences for each subject taught in their grade level. Teachers will share meeting codes with families the week of April 6th.*

Factoring out the Greatest Common Factor

In this method of factoring, look at all of the terms in the polynomial. Take, for example:

$$6x^2 - 18x + 9$$

Is there a GCF between 6, 18, and 9 that you can divide each term by (or “undistribute”)? Make sure that you show your GCF out front (a 3 in this case), and then in the parenthesis following it, show what is left in each term after you’ve divided out that 3.

$$3(2x^2 - 6x + 3) \quad \leftarrow \text{This is called “factored form”}.$$

To check your work, distribute the 3 back in and see what you get:

$$3(2x^2 - 6x + 3) = \underline{\hspace{4cm}}$$

Write each polynomial in factored form. If the only common factor is 1, write “Prime” as your answer.

1. $13a^2 + 39a - 26$

2. $14x - 21y$

3. $10m - 5$

4. $2x^2 - 18x + 20$

5. $-18x^2 + 54x - 27$

6. $4x - 5y$

Factoring out the Greatest Common Factor

Sometimes you will be able to factor out both a number and a variable (or variables). Take, for example:

$$5x^3 - 20x^2 + 35x$$

Now we can divide all of the terms by 5, but also “take out” an x from each term. We cannot take out more than one x , because the final term only has one to lose!

$$5x(x^2 - 4x + 7)$$

Write each polynomial in factored form.

1. $2r^3 - 6r^2 - 4r$

2. $3m^2 + 4m$

3. $ar + as + at$

4. $y^2 - y$

5. $2k^3 + 4k^2 + 6k$

6. $6ab^2 - 30a^2b$

Factoring Polynomials

Day 2

Trinomials in the form $x^2 + bx + c$

This lesson focuses on polynomials that look like this:

$$x^2 + 5x + 4$$

$$x^2 - 7x + 10$$

$$x^2 + 8x + 15$$

$$x^2 - 6x - 16$$

$$x^2 + 7x - 30$$

$$x^2 - 6x - 40$$

Notice how the signs could be positive or negative but they all start with x^2 ...middle term is x ...last term is a constant. Now let's see how we factor these.

Example: Factor $x^2 + 7x + 12$

Set up 2 sets of parentheses:

$$(\quad)(\quad)$$

Choose factors of the first term (x^2) and place them in the first position in each set of parentheses. We will use x & x .

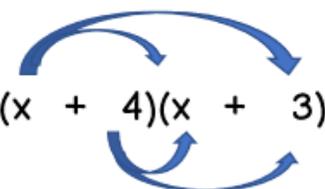
$$(x \quad)(x \quad)$$

Choose factors of the last term (12) that will combine to equal the middle term ($7x$) and place them in the second position in each set of parentheses. We will use 4 & 3.

$$(x + 4)(x + 3)$$

Now if we did this right we should be able to check by multiply our answer and it will equal the original expression.

Check: $(x + 4)(x + 3)$



$$x^2 + 3x + 4x + 12$$
$$x^2 + 7x + 12$$



Let's Talk About Signs:

If the last term is positive:

Use the SAME signs to be sure your terms multiply to give you a positive last term. If the b value (middle term) is positive, use 2 positive signs. If the b value (the middle term) is negative, use 2 negative signs.

$$x^2 + 10x + 16$$

or

$$x^2 - 12x + 35$$



Positive Middle Term

$$x^2 + 10x + 16$$

$$(x + 8)(x + 2)$$

Negative Middle Term

$$x^2 - 12x + 35$$

$$(x - 7)(x - 5)$$

If the last term is negative:

Use DIFFERENT signs to be sure your terms multiply to give you a negative last term. If the b value (middle term) is positive, make sure the larger factor is positive. If the b value (the middle term) is negative, make sure the larger value is negative.

A cartoon illustration of a green turtle with an orange shell, pointing its right hand towards a yellow notepad. The notepad contains two quadratic equations: $x^2 + 3x - 4$ and $x^2 - x - 12$, separated by the word "or".
$$x^2 + 3x - 4$$

or

$$x^2 - x - 12$$

Positive Middle Term

$$x^2 + 3x - 4$$

$$(x + 4)(x - 1)$$

Negative Middle Term

$$x^2 - x - 12$$

$$(x - 4)(x + 3)$$

Independent Practice

Factor each polynomial.

1 $x^2 + 3x + 2$ Check:	2 $x^2 + 9x + 18$ Check:
3 $x^2 + 13x + 22$ Check:	4 $x^2 - 18x + 45$ Check:
5 $x^2 - 10x + 21$ Check:	6 $x^2 - 15x + 44$ Check:

Factoring Polynomials

Day 3

Trinomials in the form $ax^2 + bx + c$

This lesson focuses on polynomials that look like this:

$$2x^2 + 7x + 6$$

$$8x^2 - 14x + 5$$

$$7x^2 + 31x + 12$$

$$3x^2 - 16x - 12$$

$$12x^2 + 11x - 15$$

$$10x^2 - 33x - 7$$

Notice how the signs could be positive or negative but this time x^2 has a coefficient...Now let's see how we factor these.

Example: Factor $2x^2 + 7x + 6$

Set up 2 sets of parentheses:

()()

Consider all sets of factors of the first term ($2x^2$) and all sets of factors of the last term (6).

Factors of $2x^2$:
 $2x \cdot x$

Factors of 6:
 $3 \cdot 2$
 $6 \cdot 1$

We need to find a combination such that the inner product and outer product combine to equal the middle term ($7x$).

$$(2x + 3)(x + 2)$$

Since $4x$ and $3x$ gives us $7x$ (our middle term), we have the correct combination.

Check: $(2x + 3)(x + 2)$

$$2x^2 + 4x + 3x + 6$$
$$2x^2 + 7x + 6$$



Let's Talk About Signs:

If the last term is positive:

Use the SAME signs to be sure your terms multiply to give you a positive last term. If the b value (middle term) is positive, use 2 positive signs. If the b value (the middle term) is negative, use 2 negative signs.

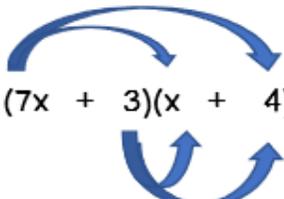
**Positive last term
with positive middle term**

$$7x^2 + 31x + 12$$

ANSWER

$$(7x + 3)(x + 4)$$

Check: $(7x + 3)(x + 4)$



$$7x^2 + 28x + 3x + 12$$
$$7x^2 + 31x + 12$$



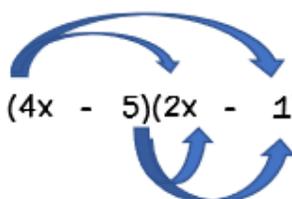
**Positive last term
with negative middle term**

$$8x^2 - 14x + 5$$

ANSWER

$$(4x - 5)(2x - 1)$$

Check: $(4x - 5)(2x - 1)$



$$8x^2 - 4x - 10x + 5$$
$$8x^2 - 14x + 5$$



If the last term is negative:

Use DIFFERENT signs to be sure your terms multiply to give you a negative last term. If the b value (middle term) is positive, make sure the LARGER PRODUCT is positive. If the b value is negative, make sure the LARGER PRODUCT is negative.

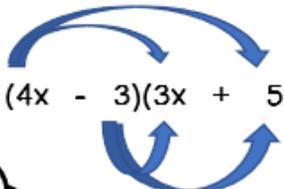
**Negative last term
with positive middle term**

$$12x^2 + 11x - 15$$

ANSWER

$$(4x - 3)(3x + 5)$$

Check: $(4x - 3)(3x + 5)$



$$12x^2 + 20x - 9x - 15$$
$$12x^2 + 11x - 15$$



With 20x being
The larger product
it must get the
positive sign.

**Negative last term
with negative middle term**

$$3x^2 - 16x - 12$$

ANSWER

$$(3x + 2)(x - 6)$$

Check: $(3x + 2)(x - 6)$



$$3x^2 - 18x + 2x - 12$$
$$3x^2 - 16x - 12$$



With 18x being
The larger product
it must get the
negative sign.

Independent Practice

Factor each polynomial.

1 $2x^2 + 11x + 9$ Check:	2 $5x^2 + 16x + 12$ Check:
3 $8x^2 + 34x + 21$ Check:	4 $6x^2 - 23x + 15$ Check:
5 $14x^2 - 23x + 8$ Check:	6 $18x^2 - 35x + 12$ Check: