Question #4 Extension Examples

November 28, 2022

Multiplication of Multi-Digit Numbers- Smous (5)

Lily Regan Julia Alexis Megan

Kenna

Divide Whole Numbers- Pinter (11)

Colton
Wyatt
Nathan
Carriana
Ryan
Basil
Colin
Anna
Lizzy
Autumn H.

Adding Decimals-DeShone (20)

Jamin Molly Kace Isaac Cameron Madalynn Liam Deliah

Keira

Ricky

Mason K Kamryn Ethan Kathrin Charlie Phoenix Lucas Jackson D Emma Jackson G

Subtracting Decimals-Mills (11)

Maekaylie
Lucy
Remington
Samantha
Zayleigh
Miranda
Albert
Jaxson
Noah
Mason
Rylen

Extension- Wojtysiak(29)

Brady McKenna Sophia Austin Parker Vander Kaydance Makiyah Alice Abby Sam Mason J Owen Wyatt Dexter Tim Jenna Noah Eli Reid Ellie Rowan **James** Braxton Autumn S Addy Orbie Marley

DJ

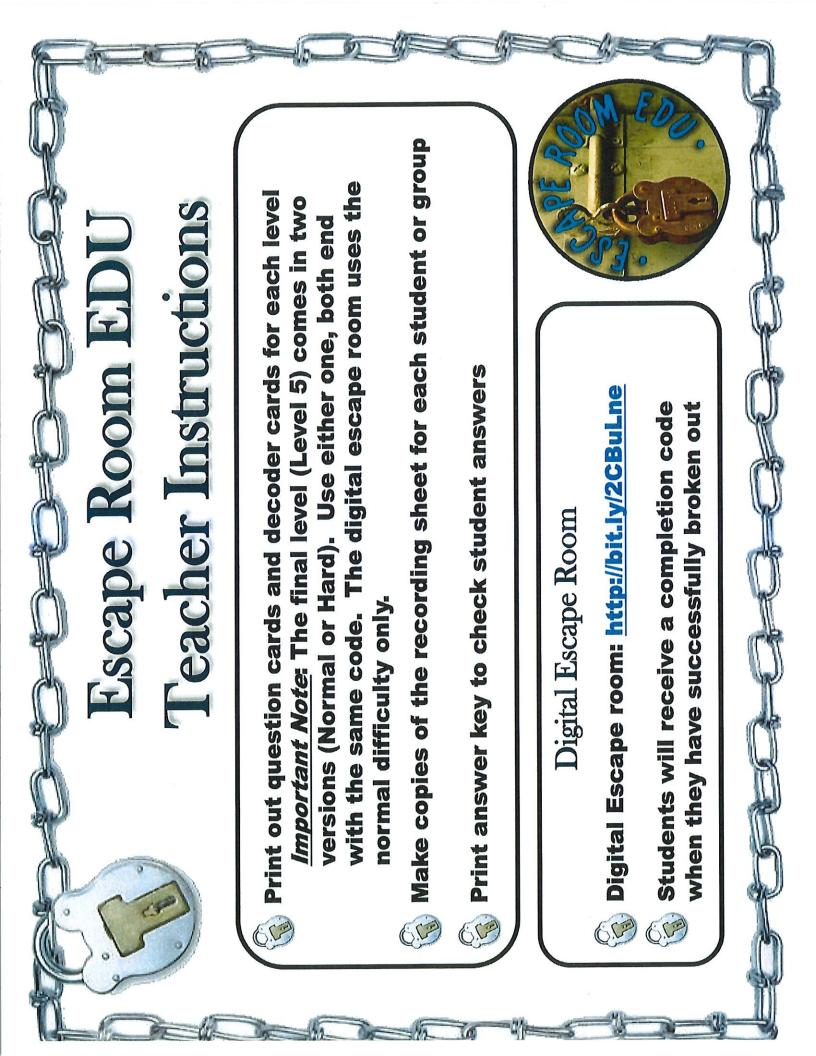
Noah

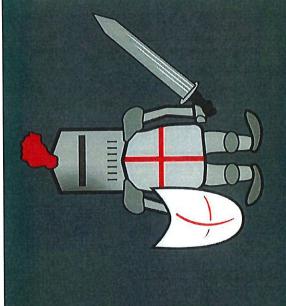
$ \cdot fx$	Cloonan				F
Α	В	С	D	Е	٢
Cloonan	Horvath	Spence	Livinghouse (Extension)	Hale (Extension)	
Ella - H	Paris - H	Mason - H	Jayden-S	Travis - H	
Colton - H	Greg - H	Caito - H	Breckyn-S	Kooper - H	
Муа - Н	Kaydence - H	Ana Maria - H	Katelynn-S	Amelia-S	
Sophia - H	Valeria - H	Jaizyn - H	Avery - H		
Cristal - H	Madelyn-C	McKenna - H	Juan - H	Liliana-S	
Blake - H	Miles-S	Oliver - H	Gracie - H	Gunner-S	
Skyla-S	Izzy-S	Ilana - H	Lauren - H	Mason-S	
Weston-S	Nikolai-S	Max - H	Adalyn	Troy	
Japheth-S	Noel-S	Weston-S	Olivia	William	
Yami-S	Barron-S	Emily-S	Travis	Bradley	
Yoki-S	Eli-S		Riley	Almon	
Gabriel-S	Elias-S	Abria-S	Austin	Owen	
Jeanney-S	Parker SC	Nolan-S	Addison V.	Angelina	
Noelle		Charley	Anna Z.	Hayden J.	
Ethan		Quentin	Parker K.	Lillian	
		Hadley	Reid H.		
		Landen			
		Hunter			
			Adding 3: 2 digit numbers		
				Double regrouping	
				Extending the place v	alue into thousands
			83% +		

Schedule ID Schedule	Schedule Begin Session ID	Section ID Session	Type	Grades	SCHOOL STATE	Section inside Section inside Room	-	The state of the s	1	-	2	
35980433 Success Wednesday, August 31st	8/31/22	36023554 Extension - French reading	Extension		Spite	Deborah	WISS	2	30 Open		Commence of the last own or the last	deborahspite@npusc.k12.ln.us
36029210 Success, Wednesday, Sept 7	27/172	36076328 APES Class Field Trip	Extension		Buss	Margaret	WIBS	SI	25 Closed			mbuss@npusc.k12.in.us
35029213 Success, Thursday, Scot 8	9/8/22	36097430 College App Essay Help	Extension		12 Willeson	Chrystal	266	7	15 Open			owlikeson@npusc.k12.in.us
36029213 Success, Thursday, Sept 8	5/8/22	36065753 Spanish Conversation and IHS Cultural Hours	Extension		Pietrzak	Christy	WISS	A	30 Open			cpletrzak@npusc.k12.ln.us
36029213 Success, Thursday, Sept 8	2/8/22	36094809 Econ Discussion	Extension	11,12	Sorg	Artur	N175	8	30 Open			artursong@npusc.ld2.ln.us
36029213 Success Thursday Sept 8	9/8/72	36092449 Let's Watch the News	Extension	11,12	Hooks	Kathleen	NL72	72	25 Open			kayleehooks@npusc.k12.in.us
36029219 Success Tuesday, Scot 13	97372	36091366 Poetry Writing	Extension		Sinta	Jessia	W92	22	20 Open			Jsloka@npusc.k12.ln.us
36029219 Success, Tuesday, Sept 13	9/13/22	36144868 Making a Basic Video Game	Extension		Olles	Terence	W126	22	15 Open			terenceclines@npusc.kd2.ln.us
3609000 Success Wednesday Sept 14	9/14/72	36146503 Investing	Extension	10,11,12	Dermody	Todd	683	22	30 Open			todddermody@npusc.k12.ln.us
36029306 Sucress Wednesday, Sept 21	972172	36147046 Dave Ramsey	Extension	9,10,11,12	Dermody	Todd	603	22	75 Open			todddermody@npusc.k12.in.us
36029305 Success, Wednesday, Sept 21	27/17/6	36203824 Pett: Prince reading	Extension		Spite	Deborah	WISS	23	30 Open			deborahspite@npusc.k12.in.us
36029326 Success, Thursday, Sept 22	22/22/6	36147077 Dave Ramsey	Extension	9,10,11,12	Dermody	Tode	6339	24	75 Open			todddermody@npusck12.ln.us
36029326 Success, Thursday, Sept 22	22/22/8	36210166 Econ Discussion	Extension	11,12	ZioS	Artur	NITS	9	30 Open			artursorg@npusc.kt2.in.us
36296254 Success, Tuesday, Sept 27	22/12/8	36235562. Ceil worz/AP lab and math work	Extension	9,10,11,12	Smlth	Angela	W137	6	30 Open		-	asmith@npusck12,ln.us
36096256 Success, Wednesday, Sept 28th	27,87,6	36107895 Spanish Conversation and IHS Cultural Hours	Extension	and the same of th	Pietrzak	Christy	WISS	п	30 Open			cpletrzak@npusc.k12.ln.us
36096258 Success, Thursday, Sept 29th	57/52/5	36237066 Anime Trope Talk: Hero's Journey	Extension		Barden	Kristen	W94	8	32 Open			kbarden@npusc.k12,In.us
36096258 Success, Thursday, Sept 29th	5/25/22	36235583 Cell wors/ cell analogy work help	Extension	9,10,11,12	Smith	Angela	W137	u	30 Open			asmith@npusc.k12.in.us
36096258 Success, Thursday, Sept 29th	22/52/6	36202803 Plant Propagation	Extension		Stone	Mark	833	น	30 Open			markstone@npusc.k12.ln.us
36161239 Success, Tuesday, October 4th	10/4/22	36270653 Prezchool Prep	Extension		Young	Hayden	134	97	30 Open			haydenyoung@npusc.k12.ln.us
36161239 Success, Tuesday, October 4th	10/4/22	36282621 9H Narrative Voice Workshop	Extension		9 White	Erlu	WD98	s	25 Open			erinwhite@npusc.kd2.ln.us
36161242 Success, Wednesday, October 5th	20/5/22	36282383 Pixar Sharts-Real World Connections	Extension	10,11,12	Sinia	Jessica	W92	អ	18 Open			Minka@npusc.k12.ln.us
36161242 Success, Wednesday, October 5th	20/5/22	36201375 Spanish Conversation and IHS Cultural Hours	Extension		Pietrzak	Christy	W153	31	32 Open	-		cpletrzak@npusc.k12.ln.us
36161242 Success, Wednesday, October 5th	10/5/22	36280808 AP FRQ/ General Biology cell part analogies-make up	Extension	10,11,12	Smith	Angela	W137		30 Open	-		ssmith@npusck12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36282838 AP Human Geography Test Practice	Extension		Chase	Nicole	NE77	8	15 Open	-	a series can describe an income of	nicolechase@npusc.kt2.ln.us
36161242 Success, Wednesday, October 5th	10/5/22	36283302 Syllogism Extension Activity	Extension		2005	Jennifer	W120	2	20 Closed		-	Jennifersoos@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36282746 Falry tale reading in French	Extension	10,11,12	Spite	Deborah	W1SS	9	30 Open	-	100	deborahspite@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36283999 Dice Games and Probability	Extension		D D	Terence	W126	16	20 Open		The same of the sa	terenceclines@npusc.kd2.in.us
36161245 Success, Thursday, October 6th	22/9/01	36267744 Dave Ramsey	Extension	10,11,12	Dermody	Todd	500	ដ	30 Open	-		todddermody@npusck12.ln.us
36161407 Success, Tuesday, October 11	10/11/22	36306189 AP Blology case study review	Extension	9,10,11,12	Smith	Angela	W137	7	30 Open	-		asmith@npusck12,in.us
36307794 Success A	20/22/02	36330738 Fishtopia - Spanish Vocab Review	Extension		Rult	Angela	WISK	ផ	30 Open			angelarulz@npusc.k12.ln.us
36307794 Success A	22/22/01	36330839 Band Jam	Extension	11,01,6	lagel	Jared	Band Room	9	40 Open			Jaredjaggi@npusc.kt2.ln.us
36307800 Success B	10/12/22	36333533 water lab-inquiry/HB independent inquiry Lab	Extension	9,10,11,12	Smith	Angela	W137		30 Open			asmith@npusc.kd2.in.us
36307800 Success B	10/12/22	36330739 Blooket Spanish Vocab Review	Extension		Rult	Angela	WISK	7	30 Open			angelaruiz@npusc.k12.in.us
36307800 Success 8	22/22/01	36316641 Mat Ball	Extension		States	Jordan	Gym	ឡ	20 Open			Jordanstaus@npusc.k12.in.us
36307800 Success B	10/12/22	36330313 French fables	Extension	10,11,12	Spite	Deborah	WISS	я	30 Open			deborahspite@npusc.k12.ln.us
3G307800 Success B	22/21/01	36330727 Recess vs No Recess in Schools Discussion	Extension		Young	Hayden	140	Ħ	30 Open			haydenyoung@npusc.kd2.in.us
36307800 Success 8	10/12/22	36330848 DC/BOA Band Extravaganza	Extension	11,01,0	lagel	Jared	Band Room	*	40 Open	1000		Jared Jaggi @npusc.k12.In.us
36307877 Success Tuesday, October 18th	10/18/22	36315409 Career Connection: Physical Therapy- meet with NPHS alumnus Kyle	nus Kyle Extension		Aerts	Tomya	Cougar Den	26	40 Open			taerts@npusc.k12.In.us
36307896 Success Wednesday, October 26th	22/92/01	36315411 Career Connection: Child Life Specialist- meet NPHS alumnae Jessica	a Jessica Extension		Aerts	Tompa	Coupar Den	R	75 Open			taerts@npusc.k12.ln.us
36307898 Success Thursday, October 27th	22/12/01	36323787 Scary Stories from Mythology	Extension		Barden	Kristen	W94	Ħ	32 Open			kbarden@npusc.k12.in.us
36307898 Success Thursday, October 27th	22/12/01	36399911 Improve your writing with grammar/punctuation games	Extension	9,10	Medars	Angle	W138	п	30 Open			anglemedors@npusc.kd2.ln.us
36456448 Success, Wednesday, November 2nd	11/2/22	36456463 StoryMatic-Creative Writing	Detension	9,10,11,12	Sinia	Jessica	W92	6	25 Open			
36422666 Success, Thursday, November 10th	11/10/22	36456041 Indigenous American Folklore	Extension		Barden	Kristen	W94	ដ	32 Open			kbarden@npusc.k12.ln.us
36439553 Success, Wednesday, December 7th	22/1/22	36612630 Muslque Mercredi	Extansion		Spite	Deborah	W1SS	2	30 Open	-	the last development of the last	deborahspite@rpusc.k12,in.us
36439553 Success, Wednesday, December 7th	22/7/22	36585078 Evaluate Toddler Snack Labels	Extension		Junox	Hayden	1964	អ	30 Closed			haydenyoung@npusck12.in.us
35439567 Success, Wednesday, December 14th	12/14/22	36646811 Winter Myths	Extension		Barden	Kristen	W94	81	32 Open			kharden@npusc.k12.ln.us
36613690 Success Tuesday, December 20th	22/02/21	36613710 Spanish Games	Extension		Rute	Angela	W154	81	18 Open			angelaruiz@npusc.k12.ln.us



Our students are identified as high ability through our district wide district benchmark testing and CoGat In the classroom, we use our mastery data of learning targets from our essential skills in ELA to focus on Question #4 to provide extensions. These students are grouped together to extend beyond the essential skill. During our reading RTI time, these students are engaged in lessons that utilize resources provided through our high ability funding to target the extension of specific standards. This provides a deeper understanding to extend our essential standards. For example, in this photo, students are reading an excerpt from a 3-part short story called, The Traveler, in class. In class, these students have mastered the inference of character trait. These students are now tracking and inferring character traits of different characters to compare and contrast the characters once we are at that point.





The Crusades

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A deep dive into the battles for the Holy Land!!





CREATE YOUR OWN MINI CIVILIZATION



Have fun and use everything you have learned about civilizations so far!!!

Everything is completely made up and from your imagination!!

Extension Activities:

- Types of Conflict Extension Activity- Students that have mastered the standard work examine short stories that we have covered for types of conflict. -Gallery Walk/Sorting onto Posters -Discussions in small groups - Characteristics that define
- Figurative Language Fig lang "hunt" using various types of text/sources
- Jeopardy Games Both Teacher AND student created <u>Fig Lang Jeopardy</u>
- Color Coding for Fig Lang within texts outside of our unit of study.
- Written Response (Citing text evidence) Extension Students "grade" other student's responses checking for mastery of the RACE/Written Response format/Rubric
- "Bullseye Activity" Will begin semester 2
 - "Bullseye" (Smekens) Creating Multiple Choice Questions Students are given a
 question from the teacher. They then work to locate 5 pieces of text evidence
 from the story to use as possible answer choices (1 perfect/bullseye, 1 near
 bullseye, 2 outer ring pieces)
- Socratic Seminar/Shared Inquiry Discussion -Great Books Roundtable
- THEME Ted Talks Students search for a Ted Talk related to a particular THEME.
 Complete a Ted Talk Response Sheet
- Sell This Haunted House Creative Writing Activity (see packet)
- Red Scarf Girl Using Visual Images...students make INFERENCES Small Group Discussion -Making connections between the Memoir and the Historical Documents. (What information do I need from the historical documents to better understand the memoir?)

Miss Serry's First Grade
Math Lesson 16 – Counting to 120
Lesson presented December 8, 2022

Our class has been studying counting to 120 both aloud and with the aid of a 100s chart. Students were also required to find patterns within the 100s chart and count on from any given number. One of the tasks they had to demonstrate mastery of, was filling in missing numbers within the 100s chart. My class had mastered filling in the chart when given several anchor numbers and only having to be able to count forward or backward by 1s as demonstrated in the first worksheet.

As an extension, I found worksheet #2. This page required them to use only one given anchor number and utilize their knowledge of counting forward and backward by 1s as well as forward and backward by 10s as they moved up and down the columns. The sections of the chart given to them were also very random in shape creating gaps in their counting for added challenge.

Worksheet #1 - On level

Worksheet #2 - Extension

Attached is the work used for our 2 extensions groups following our double digit addition/subtraction regrouping units.

Studenets who scored at least 83% were placed into these extension groups based on kinds of mistakes made and overall readiness.

Mrs. Hale had the group with 2 digit column addition/ story problems and Miss. Livinghouse had the group with double regrouping (subtraction across zeros). Sometimes a teacher takes this highest group, but we had too many students who needed reteaching with standard regrouping in smaller groups. Miss Livinghouse has been in second grade for several years and we felt she would be fully capable to teach this extension.

We group our students based on data and switch classrooms to make sure students needs are met.

Attached is our most recent groupings. In the 200+ group kiddos come to room 130. I service them in different ways based on most recent data.

Some of our kiddos use ALEKS to enrich above grade level standards. If they utilize ALEKS they have shown mastery of the standards being addressed.

We have an older student who mentors the ALEKS kiddos and Mrs.Kleist also does to help teach new concepts.

Also attached is our enrichment supplemental materials. We use higher rit bands to enrich these students. We use RIT bands above where they are to make sure we are enriching students. The questions are based on NWEA, and meet all spectrums of the standard at RIT levels.

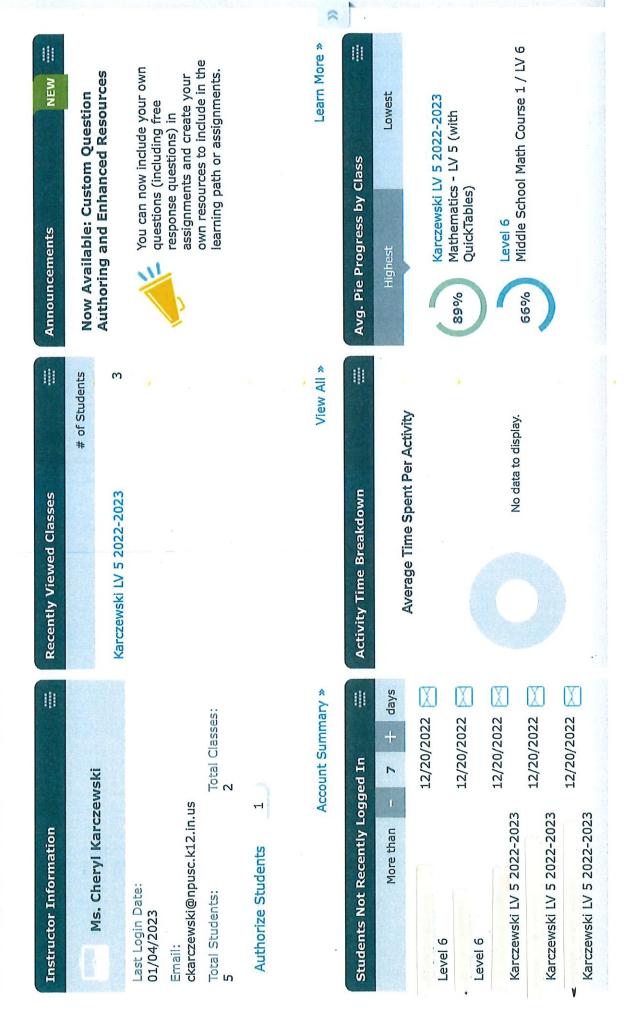
We also utilize Mobymax for students who have shown mastery but do not have ALEKS. It is a free program that allows students to work at their grade level on concepts/skills. This is mentored by our assistant.

This is an example of how we meet question 4 in math.

- 1. Aleks math program (attached example)
- 2. ixl action plan individualized with several skills above (attached example)
- 3. Junior Great Books with activities (photos attached)
- 4. Independent research activities

Here is student evidence of Powerpoint of Christmas Around the World:

Ms. Cheryl Karczewski - Dashboard



IXL Diagnostic Action Plan



Your most recent levels and recommendations as of January 4

Student:

The IXL Real-Time Diagnostic shows you what you know and what you're ready to learn next. Work on your personalized skill recommendations until you reach excellence (90+). Visit the Real-Time Diagnostic often to see how your stats change and to get new recommendations!

Have questions about the Real-Time Diagnostic? Visit www.ixl.com/diagnostic-help.

			Lance Lance
Overa	Ш	math	level

O	verall	mat	th lev	/el		1 <u>1</u> 23							
0	100	200	300	400	500	580	700	800	900	1000	1100	1200	1300
Ma	th strai	nd lev	vels an	ıd rec	omn	nenda	tions						
Nur	nbers &	Opera	ations										
0						590							1300
\$ 2	2 recomm	ended s	skills										
	Multiply	three or	r more n	umbers	up to	2 digits	each (Fift	h grade) >> CKE				
	Prime ar	nd comp	osite: u	o to 100	(Fourt	h grade)	>> L9R						
Alg	ebra & A	Algebr	aic Thi	nking									
0						62	0						1300
\$	recomm	ended s	skills										
()	Compare	e patter	ns (Fifth	grade)	>> XPN	Л							
	Compare	e numbe	ers using	g multip	licatio	n: word	oroblems	(Fourth	grade) >	QKB			
	Write va	riable e	xpressio	ns: wor	d probl	ems (Si	xth grade)	>> 6LQ					
	Write va	riable e	xpressio	ns (Fiftl	n grade	e) >> UZ	Z						
	Identify	terms a	nd coeff	icients	(Sixth	grade) >>	9KE						

Fractions

	100 520 800	
\$ 4	recommended skills	
	Write fractions in lowest terms (Fifth grade) >> A76	
	Multiply unit fractions by whole numbers: sorting (Fourth grade) >> VGC	
	Multiples of unit fractions: find the missing numbers (Fifth grade) >> MR5	
()	Multiply fractions by whole numbers using models: complete the equation (Fifth grade) » VXF	
Coo	ma others	
Geo	metry	
0	550	300
\$	recommended skill	
	Graph points on a coordinate plane (Fifth grade) >> AST	
Mar		
ivie	surement	
0	570 700	
\$	recommended skills	
	Compare and convert customary units of volume (Fourth grade) >> GAA	
	Compare and convert customary units of length (Fifth grade) >> 7E8	
Dat	a, Statistics, & Probability	
0	670	300
>	recommended skills	
	Find the range (Fifth grade) >> 2T8	
	Identify statistical questions (Sixth grade) >> PT7	
	Changes in mean, median, mode, and range (Sixth grade) >> 2G9	
	Interpret bar graphs (Seventh grade) >> YYE	



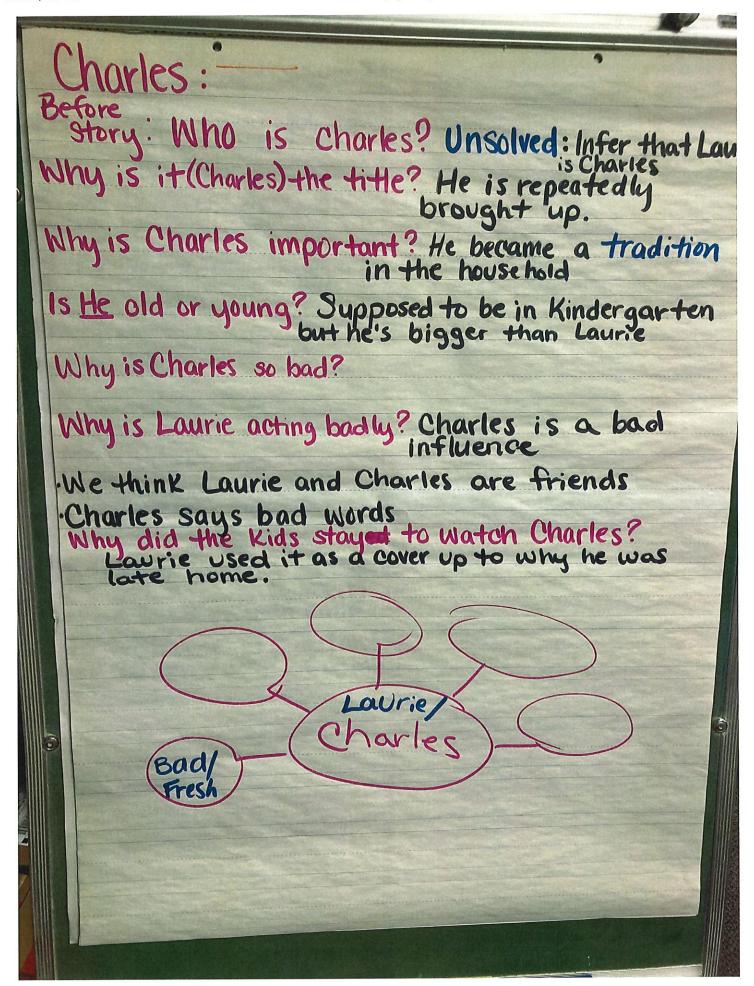
700 100 200 600 900 1000 1100 1200 1300 Overall reading level 600 660 0 100 200 300 400 500 800 900 1000 1100 1200 1300 Language arts strand levels and recommendations **Reading Strategies** 0 1300 > 5 recommended skills Use key details to determine the main idea (Third grade) >> NHQ Determine the meaning of words using synonyms in context (Sixth grade) >> GYH Use actions and dialogue to understand characters (Fifth grade) >> LZ7 Use context to identify the meaning of a word (Fourth grade) >> DC8 Compare and contrast in informational texts (Sixth grade) >> QZW Vocabulary 0 1300 > 5 recommended skills Choose the synonym (Seventh grade) >> SXV Use dictionary entries (Eighth grade) >> QZN Which sentence matches the definition? (Seventh grade) >> Positive and negative connotation (Eighth grade) >> XY6 Words with sub- (Eighth grade) >> 7Z5

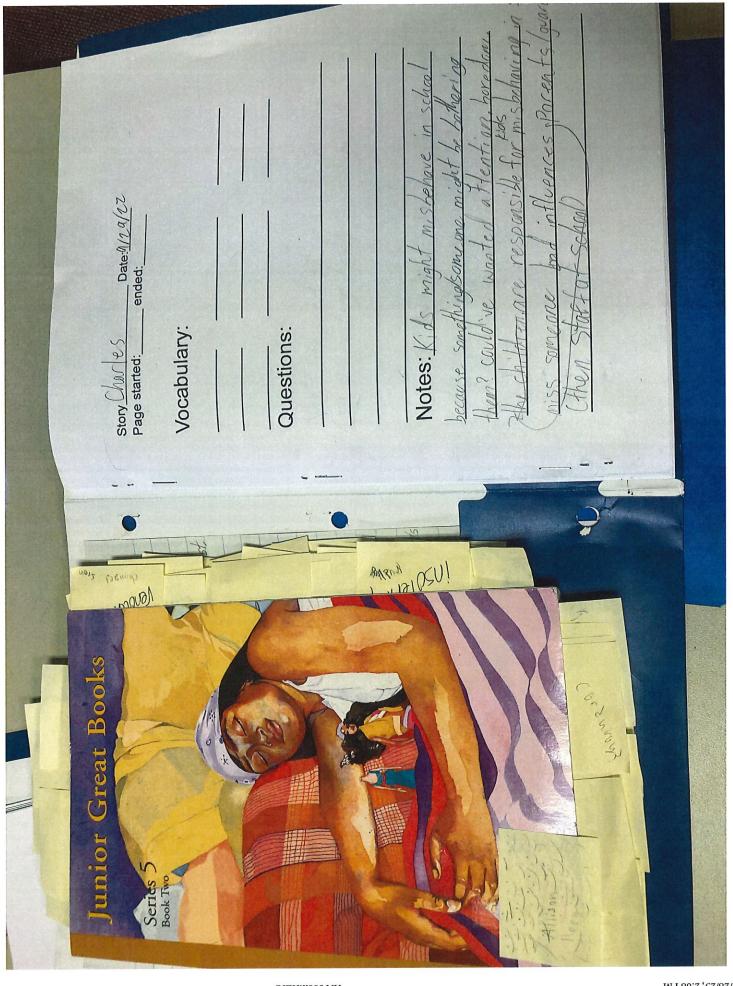
Writing Strategies

200 1300 5 recommended skills Show character emotions and traits (Third grade) >> scz Order topics from broadest to narrowest (Eighth grade) >> JBM Evaluate counterclaims (Tenth grade) >> B8W Organize information by main idea (Tenth grade) >> 8VC () Classify logical fallacies (Eighth grade) >> FZ9 **Grammar & Mechanics**

0 1100 ⇒ 3 recommended skills

- Correct errors with frequently confused words (Eighth grade) >> PH9
- Correct errors with subject-verb agreement (Seventh grade) >> 94Y
- Misplaced modifiers with pictures (Seventh grade) >> J89





If someone has mastered the first four activities then we move on to the reading passage which is our response to question 4.

We have attached the sequence of activities.

- 1. Letter fluency
- 2. CVC fluency
- 3. CVC and heart word fluency
- 4. Nonsense words
- 5. Reading Passage

Kdg. Team

NTHS

Schedule ID Schedule	Schedule Begin Session ID	Session ID Session		Grades	Session Instruc	Session Instruc Session Instruc Room	n Enrolled	Capacity	Open/Closed Priority	Course	Course ID	Session Created By
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36161242 Success, Wednesday, October 5th	10/5/22	36282383 Pixar Shorts-Real World Connections	Extension 1	10,11,12	Sinka	Jessica W92		15	18 Open			Jsinka@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36201375 Spanish Conversation and IHS Cultural Hours	Extension		Pietrzak	Christy W153	m	31	32 Open			cpietrzak@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36280808 AP FRQ/ General Biology cell part analogies-make up	Extension 1	10,11,12	Smith	Angela W137	7		30 Open			asmith@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36282838 AP Human Geography Test Practice	Extension		Chase	Nicole N177	7	s	15 Open			nicolechase@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36283302 Syllogism Extension Activity	Extension		Soos	Jennifer W120	0	10	20 Closed			Jennifersoos@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36282746 Fairy tale reading in French	Extension 1	10,11,12	Spite	Deborah W155	S)	10	30 Open			deborahspite@npusc.k12.in.us
36161242 Success, Wednesday, October 5th	10/5/22	36283999 Dice Games and Probability	Extension		Clines	Terence W126	9	16	20 Open			terenceclines@npusc.k12.ln.us
36161245 Success, Thursday, October 6th	10/6/22	36267744 Dave Ramsey	Extension 1	10,11,12	Dermody	Todd E339	-	15	30 Open			todddermody@npusc.k12.in.us
36161407 Success, Tuesday, October 11	10/11/22	36306189 AP Biology case study review	Extension 9	9,10,11,12	Smith	Angela W137	7	7	30 Open			asmith@npusc.k12.ln.us
36307794 Success A	10/12/22	36330738 Fishtopia - Spanish Vocab Review	Extension		Ruiz	Angela W154	4	п	30 Open			angelaruiz@npusc.k12.in.us
36307794 Success A	10/12/22	36330839 Band Jam	Extension 9	9,10,11	laggi	Jared Band	Band Room	10	40 Open			JaredJaggi@npusc.k12.ln.us
36307800 Success B	10/12/22	36333533 water lab- Inquiry/HB Independent Inquiry Lab	Extension 9	9,10,11,12	Smith	Angela W137	4		30 Open			asmith@npusc.k12.in.us
36307800 Success B	10/12/22	36330739 Blooket Spanish Vocab Review	Extension		Ruiz	Angela W154	7	7	30 Open			angelaruiz@npusc.k12.in.us
36307800 Success B	10/12/22	36316641 Mat Ball	Extension		Staus	Jordan Gym		19	20 Open			jordanstaus@npusc.k12.in.us
36307800 Success B	10/12/22	36330313 French fables	Extension 1	10,11,12	Spite	Deborah W155	N	10	30 Open			deborahspite@npusc.k12.ln.us
36307800 Success B	10/12/22	36330727 Recess vs No Recess in Schools Discussion	Extension		Young	Hayden E344	_	11	30 Open			haydenyoung@npusc.k12.in.us
36307800 Success B	10/12/22	36330848 DCI/BOA Band Extravaganza	Extension 9	9,10,11	Jagel	Jared Band	Band Room	14	40 Open			JaredJaggi@npusc.k12.in.us
36307877 Success Tuesday, October 18th	10/18/22	36315409 Career Connection: Physical Therapy- meet with NPHS alumnus Kyle	us Kyle Extension		Aerts	Tonya Coug	Cougar Den	26	40 Open			taerts@npusc.k12.in.us
36307896 Success Wednesday, October 26th	10/26/22	36315411 Career Connection: Child Life Specialist- meet NPHS alumnae J	NPHS alumnae Jessica Extension		Aerts	Tonya Coug	Cougar Den	20	75 Open			taerts@npusc.k12.in.us
36307898 Success Thursday, October 27th	22/72/01	36323787 Scary Storles from Mythology	Extension		Barden			31	32 Open			kbarden@npusc.k12.in.us
36307898 Success Thursday, October 27th	10/27/22	36399911 Improve your writing with grammar/punctuation games	Extension 9	9,10	Medors	Angle W138	8	13	30 Open			angiemedors@npusc.k12.in.us
36456448 Success, Wednesday, November 2nd	22/2/11	36456463 StoryMatic-Creative Writing	Extension 9	9,10,11,12	Sinka	Jessica W92		6	25 Open			
36422666 Success, Thursday, November 10th	11/10/22	36456041 Indigenous American Folklore	Extension		Barden	Kristen W94		17	32 Open			kbarden@npusc.k12.in.us
36439553 Success, Wednesday, December 7th	22/7/21		Extension		Spite	Deborah W155	19	7	30 Open			deborahspite@npusc.k12.in.us
36439553 Success, Wednesday, December 7th	22/7/21	36585078 Evaluate Toddler Snack Labels	Extension		Young	Hayden E344		22	30 Closed			haydenyoung@npusc.k12.in.us
36439567 Success, Wednesday, December 14th	12/14/22	36646811 Winter Myths	Extension		Barden	Kristen W94		18	32 Open			kbarden@npusc.k12.in.us
36613690 Success Tuesday, December 20th	12/20/22	36613710 Spanish Games	Extension		Rulz	Angela W154	¥	18	18 Open			angelaruiz@npusc.k12.in.us
35980535 Success Thursday, September 1st	9/1/22	36033815 Walk In the Woods	Enrichment		Buss	Margaret W139	S)	18	20 Open			mbuss@npusc.k12.In.us

INNOVATION IN MINING

Background Information

How does the mining industry use scientific innovation to reduce costs, enhance safety, and increase productivity?

Planning, running, and managing the day-to-day operations in a mine is no easy task! From the largest to the smallest mines, there are many different aspects of mining that need to be taken into account, including the costs of mining. Like any business, when costs exceed income, mines may close and workers may lose their jobs, so expenditures must be balanced against cost savings or production increases. These costs can be placed into three important categories - energy costs, resource (and equipment) costs, and safety costs. The mining industry spends time and money working to increase the productivity of their mines, while reducing the energy costs and ensuring the safety of their workers.

The use of technology in the mining industry has certainly reduced many of these costs when compared to the early days of mining (for example – acid plants on smelters certainly increased the cost of smelting, but provide environmental benefits). Today, various new technologies and innovations such as drones, automated machinery, robots, and even simulation "video games" for training workers continue to change the way we mine our resources, with the goal of making mining cheaper, safer, and more efficient.

Part 1

Dirty Jobs - Coal mucker video

There are many costs of mining and in this lesson they will be separated into three major categories:

- 1) Energy costs, 2) Resource costs, and 3) Safety costs.
 - 1. How did technology (the Coal Mucker) help minimize the costs of coal mining?
 - 2. In what ways could the Coal Mucker machine technology be improved to minimize the costs of mining even more?

Group Activity

- 1. Use the Student Sheet 1 Mining Costs
- 2. Visit the following websites on their device:
 - a. Nevada Mining Web
 - b. Explore the virtual field trip of the Nevada gold mine, making sure to watch the short video clips at various icons. As you click through the stops on the tour, you should look for and record examples of costs that they view in the appropriate column on the **Student Resource Sheet 1: Mining Costs**. You can then use the VFT videos for additional information
- 3. Virtual Field Trip videos (Chapters 1-4) from Dig into Mining
- 4. Share and compare answers from Student Resource Sheet 1: Costs of Mining with the class. Students add new ideas and costs to their Resource Sheets. Brainstorm with partners about ways that might help to lessen these costs in a mine.

Student Resource Sheet 1: The Costs of Mining

As you and your group explore the virtual mine field trip, record the energy, resource, and safety costs in the mining industry.

ENERGY COSTS	RESOURCE COSTS	SAFETY COSTS
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- "Mine Safety: How A Helmet Device Could Save Lives"
 - a. Read through the article with your group, and identify what costs this technology will reduce in mining and how it will achieve this as you read.
 - b. In the next part of this lesson, you will be researching various types of technology that will help to reduce the cost of mining in the future.
- 2. Choose one of the following technologies as a group. It cannot be the same technology as another group's, so check with your teacher before moving on. Innovative mining technologies that student groups will be assigned include:
 - a. Wearable technology
 - b. Drones
 - c. Robots
 - d. Mining simulation
 - e. Alternative energy
 - f. Automated (driverless) machines
- 3. Use the Innovation in Mining Background Information Card to proceed.
- 4. Think about the answers to the following questions as they begin their research on their mining technology:
 - a. How is/can your technology be used in the mining industry?
 - b. What types of costs will it help to reduce in mining energy? resources? safety?
 - c. How much will the technology cost?
 - d. What are the concerns with using the technology new technology is not without risk. A good sales presentation will include a description of risk and how you as the company selling the item will mitigate risk. For example, if you are selling a drone one risk would be obtaining permits to fly it you might include help with permitting as a service option.
 - e. What kinds of materials will you need or use to build your prototype model of the technology?
 - f. What scale will be used for you model? Will it be life-sized? Will it be scaled down or up?
 - g. What are some of the aspects of a good presentation? What is important to highlight to a mining company as you create your sales pitch?
- 5. Complete **Student Capture Sheet 3: Product Research** using your Innovation in Mining Background Information card and online resources.
- 6. When your group has completed their research, add your information to a slideshow (google slides, PowerPoint, Prezi) or create a video presentation (iMovie, etc.) to pitch your project.

Student Capture Sheet 2: Innovation in Mining Background Information Cards

WEARABLE TECHNOLOGY

What is it?

Wearable technology is a general term for a group of devices that are meant to be worn or kept with you throughout the day. Wearable technology that you are already probably familiar with include things like smartphones, smartwatches, fitness trackers, and google glass.

How can it be used in mining? One example of wearable tech used in mining is a small beeper-like communication device with red and green lit buttons. The device is attached to the bottom front of the miner's helmet and the lights flash when they have a message or warning is sent. The device also has four sensors to detect methane levels, carbon monoxide, diesel fumes and even radiation levels, depending on the mining conditions. The device can warn a miner of potentially harmful or dangerous situations and the company can communicate directly with miners to better manage them. Each beeper also has a radio-frequency identification tag on it so companies know exactly where their workers are.

TASK: Conduct research with your group to discover other ways that this technology is being developed to improve mining practices. Think about how this technology could be used to help reduce specific costs in the mining industry and design or refine a product (existing or new) that can achieve your goal!

AUTOMATED (DRIVERLESS) MACHINES

What is it?

Automated or driverless machines are vehicles without a person on board. Un-crewed or un-manned vehicles can either be remote controlled or remote guided vehicles, or they can be autonomous vehicles which are capable of sensing their environment and navigating on their own.

How can it be used in mining?

Driverless trucks and trains used in mining are cost-effective for mining companies as they can spend more time working, saving companies money and time, and increasing production. The software used to control and guide the vehicles can be more precise than those controlled by humans, and reduce the need for local labor in mining towns.

TASK: Conduct research with your group to discover other ways that this technology is being developed to improve mining practices. Think about how this technology could be used to help reduce specific costs in the mining industry and design or refine a product (existing or new) that can achieve your goal!

DRONES

What is it?

Drones are unmanned aerial vehicles without a pilot aboard that are controlled from the ground. Drones are used commercially, by the government and military, and by hobbyists, and can be the size of a Boeing 737 or small enough to fit in your hand. One of the advantages of using drones is that they can fly for long distances and fly into areas that are dangerous without the risk of human life. They are also useful for aerial photography of large areas.

How can it be used in mining?

As the price of drones continues to drop, it's likely that they will be used more and more for things such as surveying land to aid in mine planning and exploration for minerals in underground mines. Drones require much less fuel than larger vehicles and can go places that would be risky or impossible for humans to go.

TASK: Conduct research with your group to discover other ways that this technology is being developed to improve mining practices. Think about how this technology could be used to help reduce specific costs in the mining industry and design or refine a product (existing or new) that can achieve your goal!

ROBOTS

What is it?

Robots contain sensors, control systems, manipulators, power supplies, and software all working together to perform a task. The type of robots that you will encounter most frequently are robots that do work that is too dangerous, boring, onerous, or just plain messy. Most of the robots in the world are of this type. They can be found in auto, medical, manufacturing, and space industries.

How can it be used in mining?

Robots can be used to explore and map mines and to enter areas and parts of a mine that may be dangerous for humans to test for things such as toxic gases. They can find and mine for ore, and could help to rescue trapped miners in the event of an emergency. Robots can also change large equipment tires. Changing large mining equipment tires is dangerous because tires can fall and crush workers and, if a blowout occurs while a person is working on a tire, the forces generated can be very dangerous. A robotic forklift can drive up to a piece of equipment, use lasers to locate lug nuts, robotically remove the lug nuts, change the tire, and reattach the new tire — all without a person being in the vicinity of the work.

TASK: Conduct research with your group to discover other ways that this technology is being developed to improve mining practices. Think about how this technology could be used to help reduce specific costs in the mining industry and design or refine a product (existing or new) that can achieve your goal!

Student Capture Sheet 3: Product Research

How is/can your technology be used in the mining industry?	What types of costs (energy, resources, safety) could your technology help to reduce in mining?	What kinds of materials will you need or use to build your prototype model of the technology?
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Sketch your ideal prototype:		

Extension Activities:

- Types of Conflict Extension Activity- Students that have mastered the standard work examine short stories that we have covered for types of conflict. -Gallery Walk/Sorting onto Posters -Discussions in small groups - Characteristics that define
- Figurative Language Fig lang "hunt" using various types of text/sources
- Jeopardy Games Both Teacher AND student created <u>Fig Lang Jeopardy</u>
- Color Coding for Fig Lang within texts outside of our unit of study.
- Written Response (Citing text evidence) Extension Students "grade" other student's responses checking for mastery of the RACE/Written Response format/Rubric
- "Bullseye Activity" Will begin semester 2
 - "Bullseye" (Smekens) Creating Multiple Choice Questions Students are given a question from the teacher. They then work to locate 5 pieces of text evidence from the story to use as possible answer choices (1 perfect/bullseye, 1 near bullseye, 2 outer ring pieces)
- Socratic Seminar/Shared Inquiry Discussion -Great Books Roundtable
- THEME Ted Talks Students search for a Ted Talk related to a particular THEME.
 Complete a Ted Talk Response Sheet
- Sell This Haunted House Creative Writing Activity (see packet)
- Red Scarf Girl Using Visual Images...students make INFERENCES Small Group Discussion -Making connections between the Memoir and the Historical Documents. (What information do I need from the historical documents to better understand the memoir?)

6th Grade ELA Priority Standards-Learning Menu Activities

6 R.L. 2.1 Cite Evidence & 6 R.N. 2.1 Cite Evidence

Cite textual evidence to support analysis of what a text says explicitly, as well as, inferences drawn from the text.

6 R.N. 2.2 Central Idea

Determine how a central idea of a text is conveyed through particular details; provide an objective summary of the text.

Option #1: NewsELA (Independent, Table Group Discussion, Whole Group Presentation)

Students will choose high interest passages within their Lexile Range and answer comprehension questions that vary in complexity based on reading levels. Students will also answer an open-ended question using various strategies (ie: written response format, objective summary). Students will summarize one article of choice to their group and/or class.

I CAN:

- *determine the central idea of a text
- *cite text evidence for to support the analysis of a text
- *summarize information objectively
- *effectively engage in collaborative discussions (e.g., one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence

STANDARDS:

RN/RL.2.1

RN/RL.2.2

SL.2.1

SL.2.2

Additional Student Resources: Written response anchor chart/organizer, objective summary anchor chart, EdPuzzle, student inquiry, schema

6 R.L. 2.2 Theme

Determine how a theme or central idea of a work of literature is conveyed through particular details; provide a detailed, objective summary of the text.

Option #2: Theme in Literature Through Art (Independent, Table Group Discussion)

Students will examine famous pieces of artwork and infer the theme or life lesson the artist was attempting to convey. Then, students will read background information about the piece of art and the artist. Students will reevaluate their original theme and modify it if necessary. Students will also share and compare their ideas within their group.

I CAN..

- *determine how a theme is conveyed through particular details
- *use clues and my background knowledge to make an inference

- *effectively engage in collaborative discussions (e.g., one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence

STANDARDS:

RL.2.2

RL.2.1

SL.2.1

SL.2.2

Additional Student Resources: EdPuzzle, theme in Pixar, student inquiry, schema

6.R.L.2.3 Plot/Characterization

Explain how a plot unfolds in a series of episodes as well as how the characters respond or change as the narrative advances and moves toward a resolution.

Option #3- Subtext Submarine (Collaborative, Whole Group Presentation)

Students will assess comprehension of a protagonist character's development across a text by developing criteria, drawing inferences from the text and supporting analysis with text evidence. Students will also work collaboratively in an effective way and appropriately present findings to the class.

I CAN...

- *explain how a plot unfolds
- *explain how characters change and/or respond throughout a story
- *support my analysis with text evidence
- *use inference to analyze a character
- *effectively engage in collaborative discussions (e.g.,one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence

STANDARDS:

6.RL.2.3

6.RL.2.1

6.RL.2.2

6.SL, 2.1

6.SL.2.2

Additional Resources: "The Outsiders" novel, EdPuzzles, peer collaboration, student inquiry, schema

6 R.N. 2.3 Analyze in Detail

Analyze in detail how a key individual, event, or idea is introduced, illustrated, and elaborated in a text (e.g., through examples or anecdotes).

Option #4-Individuals, Events and Ideas (Independent, Table Group Discussion)

Students will use a variety of on-line and primary sources to analyze how individuals, events and/or ideas are introduced, illustrated and elaborated in text. Students will also analyze how structures of a

text and author's purpose contribute to the development of these ideas. Students will also share and compare their analysis of a specific person, event or idea within their group.

I CAN...

- *use a variety of sources to analyze people, events and ideas
- *explain how people, events and ideas are presented throughout a text
- * explain how text structure contributes to a story's development
- *explain how an author's purpose contributes to a story's development
- *effectively engage in collaborative discussions (e.g.,one-on-one, in groups, and teacher-led)

STANDARDS:

6.RN.2.3

6.RN.3.2

6.RN.3.3

6.SL.2.1

Additional Resources: EdPuzzle, various media and primary sources, student inquiry, schema

6 R.N. 3.3 Author's Purpose/Perspective

Determine an author's perspective or purpose in a text, and explain how it is conveyed in the text.

Option #5: The Rise of Instagram Influencers (Collaborative)

Students will work in a small group to analyze the author's purpose and point of view, including conflicting viewpoints, with a high-interest article. Students will also annotate for text evidence and answer questions regarding the author's claim (Google Forms format). These questions will require inferential and explicit support using their annotated text evidence. Finally, students will integrate information from an alternate source/media.

I CAN:

- *use close read strategies to annotate text
- *determine the author's purpose of a text
- *cite explicit textual evidence
- *cite textual evidence to support inferences drawn from the text
- *effectively engage in collaborative discussions (e.g., one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence
- *use evidence to evaluate the accuracy of information presented in media

STANDARDS:

6.RN.3.3

6.RN.2.1

6.SL.2.1

6.SL.2.2

6.ML.2.1

Additional Resources: EdPuzzle, various media sources, peer collaboration, student inquiry, schema

6 R.N. 4.1 Evaluate Arguments/Claims (Evidence)

Trace and evaluate the argument and specific claims in a text, distinguishing claims that the author supports with reasons and evidence from claims that are not supported.

Option #6 -Tracing and Evaluating Arguments (Independent, Table Group Discussion, Whole Group Presentation)

After reading high interest passages, students will answer a set of standards-aligned questions designed to provide opportunities to identify the main claim, examine reasons and evidence used to support minor claims, and evaluate the effectiveness of each argument. Students will then work with their group to compare their reasonings, produce an effective counterclaim and present their arguments to the class.

I CAN:

- *evaluate an argument based on claim and evidence
- *support a claim with evidence
- *determine when claims are not supported with evidence
- *produce an effective counterclaim
- *effectively engage in collaborative discussions (e.g.,one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence
- *demonstrate a clear understanding of a topic or issue.

STANDARDS:

6.RN.4.1

6.RN.4.2

7.W.3.1

6.SL.2.1

6.Sl.2.2

Additional resources: student inquiry, schema, peer collaboration

6 R.V. 2.1 Context to Determine Meaning

Use context to determine or clarify the meaning of words and phrases.

(Acquire and use accurate grade-level appropriate general academic and content-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression)

Option #7- Vocabulary Entries (Independent, Group Presentation)

Students will create and build upon Google Slides that represent vocabulary words of their choice. These words can be taken from readings, discussions, movies, the news, etc. Students will be responsible to add one slide per week, in addition to the other options they are working on. Each slide must contain: the definition, a sentence that includes context, synonyms, antonyms, associations with people, places, objects and/or actions, and a picture that represents the word (either literal or symbolic). Once 5 slides have been created, students will present one slide of their choice to their group and/or class.

I CAN:

- *use context to clarify words
- *apply vocabulary knowledge (definitions, synonyms/antonyms, context, associations) when determining the meaning of words.

*create engaging presentations that include multimedia components (e.g. graphics, images, music, sound) and visual displays in presentations to clarify information

STANDARDS:

6.RV.2.1

6.RV.1

6.SL.4.2

Additional Resources: outside reading, movies, tv, Google Slides, schema, student inquiry

6.W.1 Learning Outcome

Write routinely over a variety of time frames for a range of tasks, purposes, and audiences; apply reading standards to support analysis, reflection, and research by drawing evidence from literature and nonfiction texts.

Option #8: An Argument Game (Collaborative, Independent, Group Discussion and Whole Group Presentation)

As a table group, students will agree on a high interest question from a provided list. Students will then work independently to create a Google Slide that argumentatively answers the question. Each student will then present their presentations to the class, and the class will have to decide whose argument is the most effective.

I CAN:

- *introduce a claim
- *support a claim with clear evidence
- *establish a style that is appropriate to the purpose and audience create engaging presentations that include multimedia components (e.g. graphics, images, music, sound) and visual displays in presentations to clarify information
- *effectively engage in collaborative discussions (e.g.,one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence

STANDARDS:

6.W.1

6.W.3.1

6.SL.2.1

6.SL.2.2

6.SL.4.2

Additional Resources: student inquiry, Google Slides

Option # 9- Ted Talks (by brilliant kids and teens) Listening Guide and Response (Independent, table Group Discussion)

Students will choose from pre-selected videos that are of interest to them (the purpose of these videos is to encourage students to think critically about new or difficult information and provide advice about how to lead with confidence). Students will note-take on key points, make text connections, and reflect in writing. Students will also summarize the article in writing, and share them with their group.

I CAN:

- *write in response to a given task
- *actively listen for a given purpose
- *summarize what I heard using key evidence
- *reflect on ideas under discussion
- *effectively engage in collaborative discussions (e.g.,one-on-one, in groups, and teacher-led)
- *elaborate and reflect on ideas by referring to specific evidence

STANDARDS:

6.W.1

SL.2.1

SL.2.2

Specific Writing Standards:

6 W 3.1 Write Arguments

"Write arguments in a variety of forms that -

- Introduce claim(s), using strategies such as textual analysis, comparison/contrast and cause/effect.
- Use an organizational structure to group related ideas that support the argument.
- Support claim(s) with clear reasons and relevant evidence, using credible sources and demonstrating an understanding of the topic or text.
- Establish and maintain a consistent style and tone appropriate to purpose and audience.
- Use appropriate transitions that enhance the progression of the text and clarify the relationships among claim(s) and reasons.
- Provide a concluding statement or section that follows from the argument presented."

6. W. 3.2 Write Informative

"Write informative compositions in a variety of forms that -

- Introduce a topic; organize ideas, concepts, and information, using strategies such as definition and classification.
- Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples from various sources and texts.
- Use appropriate transitions to clarify the relationships among ideas and concepts.
- Include formatting (e.g., *headings*), graphics (e.g., *charts, tables*), and multimedia when useful to aid comprehension.
- Choose language and content specific vocabulary that express ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.
- Establish and maintain a style appropriate to purpose and audience.
- Provide a concluding statement or section that follows from the information or explanation presented."

6 W 3.3 Write Narrative

"Write narrative compositions in a variety of forms that -

• Engage and orient the reader by developing an exposition (e.g., *describe the setting, establish the situation, introduce the narrator and/or characters*).

- Organize an event sequence (e.g., *conflict, climax, resolution*) that unfolds naturally and logically, using a variety of transition words, phrases, and clauses to convey sequence and signal shifts from one time frame or setting to another.
- Use narrative techniques, such as dialogue, pacing, and description, to develop experiences, events, and/or characters.
- Use precise words and phrases, relevant descriptive details, and sensory language to convey experiences and events.
- Provide an ending that follows from the narrated experiences or events."