Interpreting and Graphing Inequalities

Author: Marisa Aoki;Sam Saldivar Owner: Marisa Aoki;Sam Saldivar

Subjects and Domains

• Math - Expressions & Equations - Content

Common Core State Standards

• CCSS.Math.Content.6.EE.B. 8

Summary

The lesson is designed as a universal access piece to support English Learners in interpreting and writing inequalities. The lesson has scaffolds in place to facilitate student talk and understanding. The graphic organizer provides a way for students to look at the language of the inequality and interpret which inequality applies to the situation.

Attributes of the Formative Assessment Process

- Clarify Intended Learning
- Elicit Evidence
- Interpret Evidence
- Act on Evidence

Intended End Users

• 6 - Sixth Grade

• 7 - Seventh Grade

Grades

• Student

Intended Student Populations

• English Language Learners (ELL)

Media Types

- Document
- Presentation

Educational Use

- Cooperative Learning
- Guided Questions
- Note Taking
- Presentation
- Reciprocal Teaching

Technologies Required for use in Classroom

Specific Connection to the Formative Assessment Process

The lesson begins with note-taking and moves to guided practice, group practice and finally independent practice. Throughout the lesson students are practicing interpreting verbal phrases, writing and graphing inequalities. The lesson follows a gradual release model with multiple opportunities for evaluating student understanding with the option to adjust instruction accordingly.

Student Engagement to the Formative Assessment Process

Students participate in group discussions and practice writing and graphing inequalities in a team. During team practice students can critique the reasoning of their peers and receive additional support from their team members as well as the teacher, who is serving as a facilitator.

Specific Connection to the Common Core State Standards

This resource allows students to demonstrate their ability to interpret inequality statements and graph the

- Tablets/Computers for Teacher
- LCD Projector

Geographics Settings

- Urban
- Suburban
- Rural

License For Primary Material

 Smarter Balanced Copyright Clearance Form (signed by the owner)

Licenses For Secondary Material

 Smarter Balanced Copyright Clearance Form (signed by the owner) solutions. The resource begins with a guided whole group structure and gradually moves students to a team teach activity and independent practice.

Learning Goals

Students can graph the solution set of an inequality and interpret it in the context of the problem.

Success Criteria

I can write inequalities and graph them from verbal descriptions and explain my reasoning.

Context(s) in Which the Resource Could Be Used

This resource is designed to be used in a 6 grade classroom with a high number of English Learners who require language scaffolds for interpreting inequalities. It can also be used for English Learners in 7th grade classrooms as a review or for remediation so that students have adequate background to achieve the 7th grade standards.

Supporting Evidence

This resource was used in a seventh grade classroom with a high population of English Learners. Students were able to write inequalities from verbal descriptions and were able to graph the inequalities. Students were also able to explain their reasoning.

Principles, Literature, or Research

Research based best practices for English Learners were used throughout the lesson including modeling, note-taking, graphic organizer, sentence frames, and student collaboration and discussion.

Common Core State Standards

M.6.EE B

8. Write an inequality of the form x > c or x < c to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form x > c or x < c have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

Learning Target:

Students can graph the solution set of an inequality and interpret it in the context of the problem.

Success Criteria:

I can write inequalities and graph them from verbal descriptions and explain my reasoning.

Lesson Plan:

Review the learning target and success criteria with the students. Briefly review the inequality symbols and check for prior knowledge.

Using the PowerPoint on understanding inequalities, work with students to identify words that can represent the inequality symbols and show how these would be graphed. Have students take notes on the note-taking section of the team practice document. For the first inequality, the teacher models creating a sentence to fit the inequality such as,

"I have more than three jelly beans". Next, the teacher models graphing the inequality. Ask students to consider words that could match the second inequality and to write them in their notes. Using the sentence frame provided, have partner A read their answer to partner B. Call on students randomly to share their answers. Working with their partner, have the students graph the inequality. Call on students to explain their graph.



	Understanding Inequalities	Understanding Inequalities
W	≤ ords:	≥ Words:
Ex	ample: I have3 jellybeans.	Example: I have3 jellybeans.
Gr	aph: -5 -4 -3 -2 -1 0 1 2 3 4 5	Graph: $\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Continue following the same process for the next two slides, eliciting student responses in between.

Review the equation and inequality flow chart to assist students in determining which inequality should be used for a given verbal phrase.



The teacher should model the first few problems on the team practice document, asking for student input. It is very important that the teacher models using the sentence frames. For number 1 the teacher might say, "The dot is on 2 because that is the quantity stated. The dot is open because more than means greater than but not equal to 2. The arrow points toward the positive because that is the direction of the greater values."

1.) Mar	y ha	s mo	ore t	han	2 pe	nnie	s in	her	poc	ket:
< <u> </u> _5	-4	-3	-2	-1	0	1	2	3	4	\Rightarrow
Inequal	ity: _									
The do		100								
The uo	t is o	n		bec	ause	e				
The do	t is o	n		bec	ause	e				
The do	t is o	pen/	/colc	ored	beca	ause				_
The do	t is o	pen/	/colc	ored	beca	ause)			
The do	t is o	pen/	/colc	bec bred	beca	ause	itive:	s/ne	gativ	ves

Continue guided practice, having students work with partners to decipher the language, write the inequality, and complete the statements. Monitor student work for misconceptions. Common issues for English Learners are misinterpreting the verbal statements.

Word or phrase	Common misconception	Suggested Teacher action
At least vs less than	English Learners may not	Discuss the relationship and
	understand that least and less	meaning of the terms with
At most vs more than	though related have different	students, provide examples and
	meanings	have students match to term(I
	Students may not understand	have at least 5 stars vs I have
	that more than and at most	less than 5 stars-6 stars would
	though related are not the	fall into at least, 4 stars would
	same	be less than 5)
No more than	Students may not understand	Provide students with examples
No less than	that the no in front of the verbal	to clarify the effect of no on a
No lower than	phrase reverses the direction of	verbal phrase. More than 5
	the arrow in an inequality and	would include all numbers
	would include the stated value	greater than five. No more than
		5 would include five and
		everything less.

After each problem, call on students to provide answers, requiring that each student speak in complete sentences. Continue with guided practice until most students are able to interpret the problem successfully. At this point struggling students can be pulled aside for additional support. For additional support, activity cards are provided for students to match words and verbal phrases to the appropriate inequality symbol. For struggling students this is best done in a small group format so students can draw on the knowledge of other students. If all students are able to move on to partner work, allow students to continue through problem 8. The teacher needs to actively monitor student progress and talk, and interject appropriate questions to address misunderstandings and errors.

Guide students through problems 9 and 10. Allow students individual time to think and write both their answers and their explanations. Since the sentence frames are removed, provide students with time to share their answer with others prior to calling on students. Some students may continue to use the frames for answers. Monitor student work and conversations and select both correct and incorrect responses for class review. Allow students time to review the work of peers and to reach a consensus on whether answers and explanations are correct or incorrect. Support students working with peers by asking appropriate questions "How do you know that the arrow will point to the right?" "Why is it that this point is colored in and this one is not?"

Allow students to work either with partners or in small groups to complete problems 11-16. Monitor students during this time and revisit language issues as needed.

Students will complete 17-22 independently. For students with lower English proficiency, provide answer frames if needed. Continue to monitor student work and provide support and feedback as needed. For students who continue to struggle, this would be a good point to pull a small group for additional instruction.

Problems 23 and 24 can be used as an exit slip for the lesson to determine whether or not students have met the success criteria.

Name	Date

Inequalities Notes and Team Practice

>	K
Words:	Words:
Example: I have3 jellybeans.	Example: I have3 jellybeans.
Graph: $+ + + + + + + + + + + + + + + + + + + $	Graph: $\underbrace{-5 -4 -3 -2 -1 0 1 2 3 4 5}$
>	S
Words:	Words:
Example: I have3 jellybeans.	Example: I have3 jellybeans.
Graph: $++++++++++++++++++++++++++++++++++++$	Graph: $\leftarrow + + + + + + + + + + + + + + + + + + $
Equation and Inequality Flow Chart:	Could it be more? Could it be less?

Inequality: The dot is on	1.) Mary has more than 2 pennies in her pocket:	2.) John has less than 3 dollars in his account:
Inequality: Inequality: The dot is on	-5 -4 -3 -2 -1 0 1 2 3 4 5	< + + + + + + + + + + + + + + + + + + +
The dot is on because The dot is open/colored because The dot is open/colored because The arrow points toward the positives/negatives because The dot is open/colored because 3.) Simon has at least 1 friend: 4.) Jesus can spend up to \$5. <	Inequality:	Inequality:
The dot is open/colored because The arrow points toward the positives/negatives because 3.) Simon has at least 1 friend: <	The dot is on because	The dot is on because
The dot is open/colored because		
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The drive points toward the positives/negatives 3.) Simon has at least 1 friend: <_i	The arrow points toward the positives/negatives	The arrow points toward the positives/negatives
Because Decause 3.) Simon has at least 1 friend: 4.) Jesus can spend up to \$5. 4.) Jesus can spend up to \$5. Inequality: Inequality: The dot is open/colored because Inequality: The arrow points toward the positives/negatives Inequality: 5.) Yajaira can get a maximum of 4 dresses. 6.) The minimum account balance is - 4 dollars. 4.) Jesus can spend up to \$5. 6.) The minimum account balance is - 4 dollars. 4.) Yajaira can get a maximum of 4 dresses. 6.) The minimum account balance is - 4 dollars. 4.) Just can get at most 3 penalties. Inequality: The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The arrow points toward the positives/negatives because 8.) Catalina is taller than 2 feet. Inequality: The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because The dot is open/colored because <t< td=""><td>hocauca</td><td>hecause</td></t<>	hocauca	hecause
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Inequality:	3.) Simon has at least 1 friend:	4.) Jesus can spend up to \$5.
Inequality:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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The arrow points toward the positives/negatives The arrow points toward the positives/negatives because		
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The arrow points toward the positives/negatives The arrow points toward the positives/negatives because because		
because because	The arrow points toward the positives/negatives	The arrow points toward the positives/negatives
	because	because

9.) The number of pennies is greater than 1:	10.) John has fewer than 5 dollars in his account:
$<\!$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Inequality:	Inequality:
Explanation:	Explanation:
11.) The temperature stayed at or above – 3	12.) Jesus wants to spend no more than \$3.
degrees:	
	\leftarrow + + + + + + + + + + + + + + + + + + +
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Inequality:
Inequality:	mequany
Explanation:	Explanation:
13.) The maximum number of points is 2.	14.) The elevation of the desert is at least – 5 feet.
-5 -4 -3 -2 -1 0 1 2 3 4 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Inequality:	Inequality:
Explanation:	Explanation:
15.) The minimum GPA for sports is 2.0	16.) The bill can't go over \$5.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Inequality:	Inequality:
Explanation:	Explanation:

17.) There are more than 3 people on the bus:	18.) John has less than 0 dollars in his account:
<pre><+ + + + + + + + + + + + + + + + + + +</pre>	<pre><+ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ +</pre>
19.) The temperature is lower than 0 degrees:	20.) Jenny is shorter than 5 feet tall.
< + + + + + + + + + + + + + + + + + + +	<++++++++++++++++++++++++++++++++++++
Inequality:	Inequality:
Explanation:	Explanation:
21.) The elevation of the canyon is more than -2	22.) I like at least 3 flavors of ice cream:
miles	<++++++++++++++++++++++++++++++++++++++
< + + + + + + + + + + + + + + + + + + +	-5 -4 -3 -2 -1 0 1 2 3 4 5
Inequality:	Explanation:
Explanation:	
23.) Your allowance is at most \$5:	24.) The daily minimum temperature is – 5 degrees:
,	, , , , , , , , , , , , , , , , , , , ,
-5 -4 -3 -2 -1 0 1 2 3 4 5	-5 -4 -3 -2 -1 0 1 2 3 4 5
Inequality:	Inequality:
Explanation:	Explanation:

more than	less than	at least	up to
is	a maximum of	at most	is taller than
greater than	fewer than	at or above	no more than
maximum	no less than	minimum	can't go over
shorter than	lower than	at most	no lower than

Words or phrases that mean	Words or phrases that mean
<	>
less than	greater than

≤ ≥ less than or equal to
less than or equal to greater than or equal to

Unit 2: Expressions and Equations Week 6: Inequalities

Day 2: Understanding Inequalities

Warm Up

1.) Kelly has \$50 to spend for her birthday. She goes out to dinner and the total bill was \$25.50. She also wants to buy herself some shirts, which cost \$8 each. How many shirts could she buy?

Learning Target

• I will understand and graph inequalities





Understanding Inequalities
K Words:
Example: I have3 jellybeans.
Graph: $\overset{\leftarrow}{-5}$ $\overset{-4}{-3}$ $\overset{-2}{-2}$ $\overset{-1}{-1}$ $\overset{-1}{0}$ $\overset{-1}{1}$ $\overset{-2}{2}$ $\overset{-3}{4}$ $\overset{-5}{-5}$

Understanding Inequalities		
≥ Words:		
Example: I have3 jellybeans.		
Graph: $<++++++++++++++++++++++++++++++++++++$		

Understanding Inequalities		
S Words:		
Example: I have3 jellybeans.		
Graph: $\overset{\leftarrow}{-5}$ $\overset{-4}{-3}$ $\overset{-2}{-2}$ $\overset{-1}{-1}$ $\overset{-1}{0}$ $\overset{-1}{1}$ $\overset{-2}{2}$ $\overset{-3}{4}$ $\overset{-5}{-5}$		



Practice		
1.) Mary has more than 2 pennies in her pocket:		
\leftarrow + + + + + + + + + + + + + + + + + + +		
Inequality:		
The dot is on because		
The dot is open/colored because		
The arrow points toward the positives/negatives because		

Closure

Complete explanation/reflection:

1.) The most important thing to remember from this lesson is_____ because

.

2.) An example of what we did today is:

3.) I still don't understand _____



















What range of learning needs are you likely to address?	What should students know, understand, and be able to do as a result of the lesson? Know: Understand:	What's your "starting point lesson?" How will you hook the students?
What's your first cloned version?	Be Able to Do: What's your second cloned version of this activity?	What's your third cloned version of this activity?







	The Equalizer			
1. Foundational	University Ideas Materials Application	Transformational		
	rmation, laeas, materials, Applicatio			
2. Concrete		Abstract		
Repre	esentations, Ideas, Applications, Mate	rials		
3. Simple		Complex		
Resources, Research, Issues, Problems, Skills, Goals				
4. Single Facet		Multiple Facets		
Directions, Problems, A	Directions, Problems, Application, Solutions, Approaches, Disciplinary Connections			
5. Small Leap	Application, Insight, Transfer	Great Leap		
6. More Structured	Solutions, Decisions, Approaches	More Open		
7. Less Independence	Planning, Designing, Monitoring	Greater Independence		
8. Slow	Pace of Study, Pace of Thought	Quick		















Characte	r Map Character Name	
How the charact looks	ter	How the character thinks or acts
	Most important thing to I character	know about the

Character M Cha Nan	ap racter ne	
Clues the author		Why the author
gives us about the character		gives THESE clues
The au charac	ithor's bottom line ab	oout this















The Brine & Egg Group

- Students developed a prescribed procedure for measuring salt, heating water, dissolving the salt in the water, cooling the brine, determining the mass of water, determining the mass of an egg, recording all data in a data table, pouring the egg on the cool mixture, stirring the solution and observing.
- They answered questions about their procedures and observations, as well as questions about why a person can float in water, whether it is easier to float in fresh or seawater, why a helium filled balloon floats in air, and the relationship between density and buoyancy.







Secondary Tiered Assignment

Generalizations:

Concept: Responsibility



We "write" our own lives.

We have responsibility for those we "tame."

Our actions have a ripple effect.

We are responsible for ourselves.

Responsibility may require sacrifice and may result in fulfillment.

Our work bears our hallmark.

Skills/Key Vocabulary:

Argument and support, Effective use of figurative language, Editing skills, Literary analysis, Elements of literature, Genre traits, Voice

Sample Literature:

The Little Prince-Anne Frank by Miep Gies

'Bloodstain'---"I Will Create'---'To Be' Soliloquy

News Articles

Samples of Differentiation

- Both teacher assigned and student selected reading.
- Both teacher assigned and student selected journal prompts.
- Use of literature circles to discuss books/readings assigned by readiness.
- Use of small group, teacher-led focus groups on student-choice readings/
- Optional review groups on key vocabulary and skills.
- In-common and "negotiated" criteria for key writing.
- Product options.
- Use of tape recordings, shared reading on complex pieces.

1 miles

Varied work groups.

science, and our community.

Tiered lesson.

The Little Brince Secondary Tiered Assignment Students will analyze parallel pieces of writing to explore the premise that we are responsible for those we tame. Students will frame an argument to support their position. Group 2 Group 1 Read pages from The Little Prince Read pages from The Little Prince · Find at least one piece of writing that shares the fox's view on responsibility for those we Complete an analysis matrix that specifies the fox's feelings about responsibility toward those we tame and why he believes what he does. tame. Find at least 2 contrasting pieces. Read <u>Bloodstain</u> Your selections must include at least 2 genre. Complete an analysis matrix on the beliefs of the main character on the same topic. Develop notes on 2 views of responsibility with reasons and illustrations from your selections. Select a newspaper article from the folder--Write a paragraph or two that compares beliefs of people in the article with the two characters. · Be sure you are thoughtful about each view. Then either: What advice would you give children about responsibility toward people we tame • Write an editorial about the implications of the two approaches for our school. Brainstorm on paper and then either: • Write a letter to a child giving your advice. Write an interior monologue of a teen at a point of decision about responsibility for · Write guidelines for adults who affect children's lives. someone he/she has tamed. · Draw and explain a blueprint for becoming a responsible person. Create a series of editorial cartoons that look at the ripple effect of such decisions in history, Peer revise and then peer edit your work.

Novel Think-Tac-Toe basic version Directions: Select and complete one activity from each horizontal row to help you and others think about your novel. Remember to make your work thoughtful, original, accurate, and detailed.

Character	Create a pair of collages that	Write a bio-poem about yourself and	Write a recipe or set of directions
	compares you and a character	another about a main character in the	for how you would solve a problem
	from the book. Compare and	book so your readers see how you and	and another for how a main
	contrast physical and personality	the characters are alike and different.	character in the book would solve
	traits. Label your collages so	Be sure to included the most important	a problem. Your list should help us
	viewers understand your thinking	traits in each poem.	know you and the character.
Setting	Draw/paint and write a greeting	Make a model or map of a key place in	Make 2 timelines. The first should
	card that invites us into the	your life, and an important one in the	illustrate and describe at least 6-8
	scenery and mood of an important	novel. Find a way to help viewers	shifts in settings in the book. The
	part of the book. Be sure the	understand both what the places are	second should explain and
	verse helps us understand what is	like and why they are important in your	illustrate how the mood changes
	important in the scene and why.	life and the characters'.	with the change in setting.
Theme	Using books of proverbs and/or quotations, find at least 6-8 that you feel reflect what's important about the novel's theme. Find at least 6-8 that do the same for your life. Display them and explain your choices.	Interview a key character from the book to find out what lessons he/she thinks we should learn from events in the book. Use a Parade magazine for material. Be sure the interview is thorough.	Find several songs you think reflect an important message from the book. Prepare an audio collage. Write an exhibit card that helps your listener understand how you think these songs express the book's meaning.

	Novel Think Tac-Toe			
	advanced version			
	Directions: Select and complete one activity from each horizontal row to help you and others			
	think about your novel. Remember to make your work thoughtful, original, insightful, and			
	elegant in expression.			
Character	Write a bio-poem about yourself and another about a main character in the book so your readers see how you and the character are alike and different. Be sure to include the most important traits in each poem.	A character in the book is being written up in the paper 20 years after the novel ends. Write the piece. Where has life taken him/her? Why? Now, do the same for yourself 20 years from now. Make sure both pieces are interesting feature articles.	You're a "profiler." Write and illustrate a full and useful profile of an interesting character from the book with emphasis on personality traits and mode of operating. While you're at it, profile yourself too.	
Setting	Research a town/place you feel is equivalent to the one in which the novel is set. Use maps, sketches, population and other demographic data to help you make comparisons and contrasts.	Make a model or a map of a key place in your life, and in important one in the novel. Find a way to help viewers understand both what the places are like and why they are important in your life and the characters'.	The time and place in which people find themselves and when events happen shape those people and events in important ways. Find a way to convincingly prove that idea using this book.	
Theme	Find out about famous people in history or current events whose experiences and lives reflect the essential themes of this novel. Show us what you've learned.	Create a multi-media presentation that fully explores a key theme from the novel. Use at least 3 media (for example painting, music, poetry, photography, drama, sculpture, calligraphy, etc.) in your exploration.	Find several songs you think reflect an important message from the book. Prepare an audio collage. Write an exhibit card that helps your listener understand how you think these songs express the book's meaning.	
	Know: theme, setting, characterization Do : Relate elements of fiction to their own lives. Understand : Good fiction is often about the reader too. Good fiction helps readers try on different lives.			

















Sample Paragraph

• There are many reasons why we shouldn't have recess during the school day. First of all, if we didn't have recess, we would have more time to work on projects in school without being interrupted. Sometimes I am in the middle of something really, really important and then all of a sudden, we have to stop and I have to leave it behind. By not having recess, fewer students would get hurt. It seems that every time we are out on the playground, someone trips or falls and needs to go to the nurse. Finally, by not having recess, we might do better on tests. Everyone would have longer to study and we could all get A's. So you see, if we didn't have recess, it would be good for our school.







Big Mac Group

- •Pick up the Big Mac boxes. With a partner, work on the jumbled paragraph inside your box. When you feel that it is organized, raise your hands to have your teacher check your answer. Glue your corrected paragraph to your paper and turn in.
- •Meet with teacher to talk about a model for persuasive paragraphs. Your teacher will give you a graphic organizer that will be used to organize your paragraph.
- •Complete the following assignment:

Using the graphic organizer, choose one of the following topics and tell us what you think about...

- -Whether chewing gum should be allowed in class, whether students should be allowed to bring toys to school, whether dogs make better pets than cats.
- -If you need a hint, go to retrieve an "extra topping" from our jars!

Your work will be reviewed to see how well you show an understanding

of how to organize a persuasive paragraph.









