Name:		A-1-1-1-1	Community					
Big Ideas:	Math 7/Science Checklist: Q3	<u>Weeks</u>	5 & 6- Februar	y 12th-February 23rd				
<ul><li>Solving Ineq</li><li>Switching th</li></ul>	equalities on a Number Line		Science:  • Fossils and index fossils • Evolution					
<u>Upcoming Dates:</u>	***	<del></del>						
• • • • •	Week 1	·····	· · · · · · · · · · · · · · · · · · ·	Week 2				
2/14: Math Study G 2/21: Math Assessr	uide test corrections due nent	□ 2, □	/23 Science stu	ndy guide due				
	All Work. Explore work is to be ally unless noted with a "G"	e check	ed against the	control and then marked complete.				
Lesson	Explore		Expand	Extend				
□ Translating Inequalities HW Video □ Lesson Check-in 2/12	<ul> <li>□ Matching inequalities Card so (✓,M,0)</li> <li>□ Defining Word Problems (17-32) (✓, M, 0)</li> </ul>	ort 🗆	Review of Writing Expressions (%)	□ Purple Book Apply p.171 or choice Apply from Unit 6 in Discovery Ed (%) OR □ Create AND teach a green product card (use Extend rubric (%)				
Monday's work plan: (Ad Time Estimate:	dd missing works from last checklist)	ì	sday's work plan: e Estimate:					
□ Fossils HW Video □ Lesson Check-In 2/13	□ Dating the Earth-Stations wit Summary and sketch (G) (✓,M,0)	th 🗆	Index Fossils Lab (G) (%)	□ The Cliff Dwellers: Sequencing Fossils in Time (G) (%)				
Wednesday's work plan:			irsday's work plan: e Estimate:					
Time Estimate:								

Infinite

Algebra Graphing

(\_\_\_\_%)

Inequalities

**Graphing Inequalities Card** 

Sort (\_\_\_**√**,M,0)

☐ Graphing

2/14

inequalities

HW Video
☐ Lesson Check-In

Purple Book Apply p.171 or choice Apply from Unit 6 in Discovery Ed

OR

Create AND teach a green product

card (use Extend rubric (\_\_\_\_%))

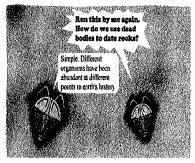
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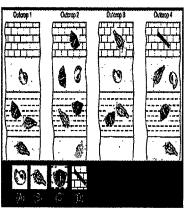
Friday's work plan:		Monday's work plan:	
		Time Estimate:	
Time Estimate:	:		
☐ Evolution HW	☐ A Trip Through Geologic Time	☐ Science Study	☐ Ask a Rock or Ask an Ice Core:
Video □ Lesson Check-In	(✓,M,0) □ Evolution Versatile (✓,M,0)	Guide (%)	Connecting Geologic Evolution and Climate Change (%)
2/15		AND	3
	•	<ul><li>Peppered</li><li>Moth Online</li></ul>	
	and the second s	Lab (%)	
Tuesday's work plan:		Wednesday's work pl	an.
Tuesday's work plan.			
		Time Estimate:	
Time Estimate:			
☐ Switching the	□ Multi-Stepper Versatile (✓,	□ Purple Book	□ Purple Book Apply p.171 or choice
inequality sign	M, 0)	6.2, p.169 &	Apply from Unit 6 in Discovery Ed
☐ Check In 2/19	□ Solving Inequalities Dominos (✓, M, 0)	170 (%)	(%)
	(V , IVI, U)		OR   Create AND teach a green product
•			card (use Extend rubric (%)
Thursday's work plan:		Friday's work plan:	
		Time Estimate:	
Time Estimate:			
Thire Estimates	T		
<ul><li>Re-loop:</li><li>Periodic Table</li></ul>	☐ Chemistry Re-Loop with Stu	mp the Test! (/	, M, 0)
HW Video 2/20			
Homework: (All as	signments are to be done independe	ntly and are due the	next day unless noted):
	F <b>ossils Powerpoint</b> video on EdPuz		
			ies videos with guided notes on EdPuzzle
	14: <b>Evolution</b> video with graphic or		e ng Flipping the Inequality Symbol video
on EdPuzzle with		AND Under Standin	ing rupping the meduanty symbol video.
	view and organize binder and comp	olete missing work a	as needed
	Periodic Table Review video with		
	Review Test Taking strategies and S		
	1:Complete missing assignments ar		
	what makes a good Sample video view and organize binder (Math an	_	on EdPuzzle for check in on Monday.
Lesson Requests:	view and organize billder (Math all	u perence, anu/or c	ompiete missing assignments
Notes and formula	36'		
notes and for militia	<b>33.</b>		

Name:	Unit:
Data	

# **Fossils Guided Notes**

# 





Fossils:	
	lls: Remains or traces of an organism that lived in the past and are found in rock.
<ul> <li>Many forms</li> </ul>	ils provide important evidence of how life and environmental conditions have changed.  I thousands of layer of sedimentary rock provide evidence for the long history of changing life whose remains are found in rocks.
<ul> <li>More</li> </ul>	recently sedimentary rock is more likely to contain fossils
reser	nbling existing species.
Fossil F	Record:
	collection of fossils and their placement in chronological order (either through relative dating order of layer formation or with radioactive dating) is known as the fossil
•	There are specific conditions necessary for fossil preservation (quick and hard parts), so not all organisms are in the fossil record.
•	and hard parts), so not all organisms are in the fossil record.  Comparisons of living organisms today with fossils allow us to reconstruct history.
•	Fossils give clues about each of the following:
1.	Diversity of things over the history of Earth.  Past and surface changes on Earth.
2.	Past and surface changes on Earth.
3.	Changes that have occurred with organisms over time.
Types o	of Fossils: s: form when sediments bury an organism and the sediments change into rock.
a Th	e organism then leaving an organism and the sediments change into rock.
2. Cast	e organism then leaving a cavity in the shape of the organism. form when a mold is filled with or mud that hardens into the shape of
the orga	anism.
3. Petri	fied: Also called "permineralized" and form when soak into the remains, replacing the remains and changing them into rock.
buried r	remains, replacing the remains and changing them into rock.
4. Prese	erved: form when entire organisms or parts of organisms are prevented from decaying by
being tr	apped in, ice, tar or onized: form when organisms or parts, like, flowers or fish are between layers of soft mud or clay that hardens squeezing almost all of the decaying
o. Carb	onized: form when organisms or parts, like, nowers or lish are
organie	m away leaving the carbon in the rock
6. Trace	m away, leaving the carbon in the rock.  e: form when the mud of sand hardens to stone where a footprint, or
burrow	of an organism was left behind.
	·
Index F	ossils:
• Ce	rtain fossils, called "index fossils" can be used to help find the ages
of rock	· · · · · · · · · · · · · · · · · · ·
• To	be an index fossil an organism must have the following:
1.	Lived only during a part of Earth's history.  Many fossils of the organisms must be found in rock layers.
3	The fossil also must be found over a area of Earth.
4.	The organism must be unique.
	e shorter the time period it lived, the better an index it is.
	rey example is a trilobite (a group of hard-shelled animals whose body had three sections
	d lived in shallow waters and became extinct 245 million years ago).
• If a	trilobite is found in a rock layer, it can be compared with trilobites from other layers to
est	imate the age of the layer in which it formed.

Which fossil in the diagram to the right would make the best index fossil and why?

By the end of this lesson you will be able to\_\_\_\_\_ Equations can have \_\_\_\_\_\_ solution(s). Inequalities can have \_\_\_\_\_ solution(s). Example 1. Graph the inequality on a number line. x > 6What can you say about the values of x? Is 6 a solution for x? \_\_\_\_ What do we use to show this on the number line? \_\_\_\_ Values that are greater than go in what direction on the number line?\_\_\_\_\_ Graph x > 610 2 Example 2. Graph the inequality on a number line. x ≤ 5 What can you say about the values of x? Is 5 a solution for x? \_\_\_\_\_ What do we use to show this on the number line? \_\_\_\_\_ Values that are less than go in what direction on the number line? Graph x ≤ 5

3

2

5

7

9

8

10

Example 3. Graph the inequality on a number line.

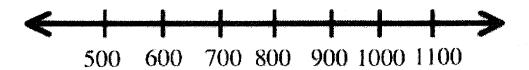
### The school holds up to 800 students

Is 800 a solution for the inequality?\_\_\_\_ What do we use to show this on the number line? \_\_\_\_\_

In which direction are the solutions to the inequality? \_\_\_\_\_

How do you write this inequality? \_\_\_\_\_

Graph the inequality.



Example 4.. Graph the inequality on a number line.

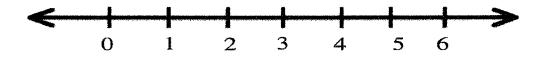
### Each group has more than 3 students

Is 3 a solution for the inequality?\_\_\_\_ What do we use to show this on the number line?\_\_\_\_\_

In which direction are the solutions to the inequality?\_\_\_\_\_

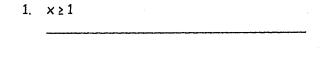
How do you write this inequality?\_\_\_\_\_

Graph the inequality.



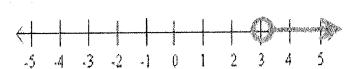
### Now it's your turn!

Write out each inequality in words. Then match the inequality with the correct number line graph.



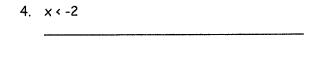








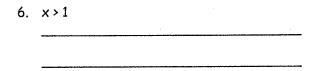


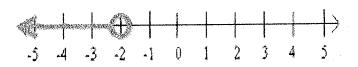












By the end of this lesson you will be ab	le to			***************************************	······································		
#78/76/00/districts							·
Example 1 - Determine if the following	value is a solution to	the inequalit	ty.				
5 + x ≤ 12							
What do you need to do to determine i	f 7 is a solution to the	e inequality?					
Is 7 a solution to this inequality?							-
Let's try a few more							
x - 12 > -8							
Is 5 a solution to the inequality?						·	
4× ≤ 20				•			
Is 10 a solution to the inequality?				***************************************	,		
$\frac{x}{5} \le -3$				\$			. 1
Is -15 a solution to the inequality?							
How is solving an inequality different	than solving an equa	ation?					
While the process is	, the answers are				······································		
Example 2 Solve for the variable x.							
x - 14 > 6							
What do I need to do?							
Step 1.							

Let's try a few more...

$$\frac{x}{7} \le -3$$

### Now it's your turn!

Determine whether the value is a solution to the inequality.

- 1) Is -3 a solution to the inequality  $x + 7 \ge -2$ ?
- 2) Is 8 a solution to the inequality -3x < -30?
- 3) Is 10 a solution to the inequality  $\frac{x}{4} > 2\frac{1}{2}$ ?

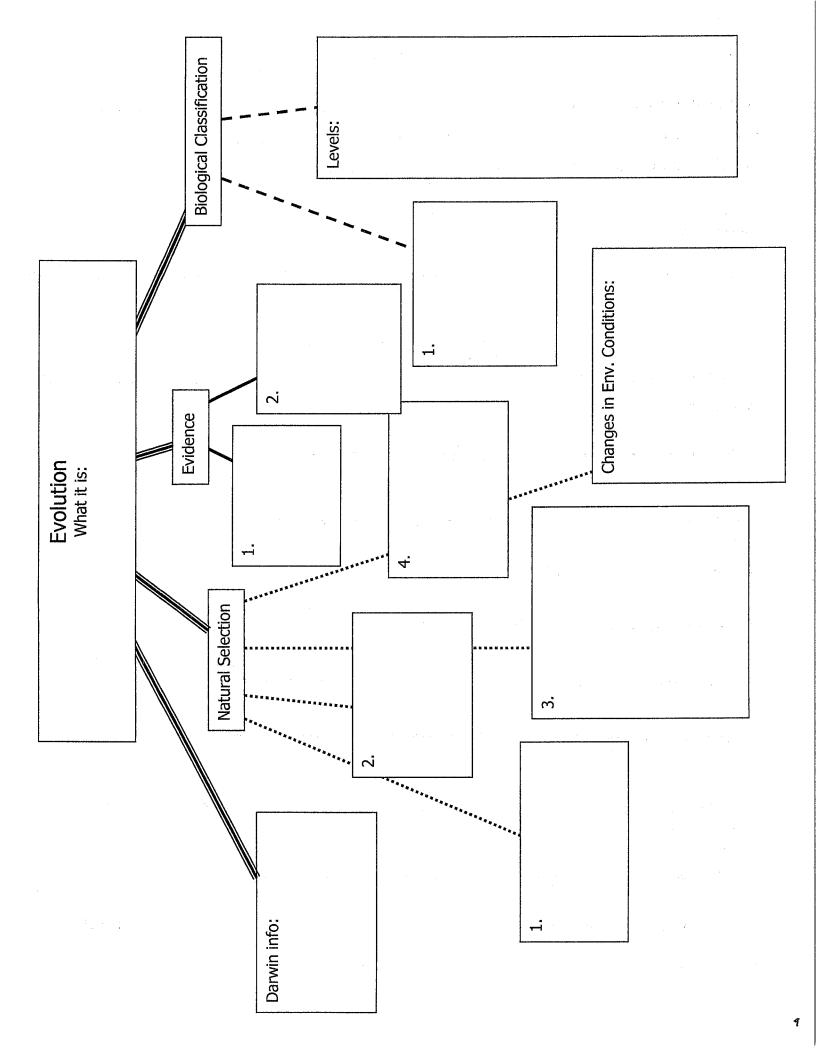
Solve for the variable x in the inequality.

4) 
$$x - 9 < -3$$

5) 
$$\frac{x}{2} < -5.5$$

6) 
$$5x \le -30$$

7) 
$$x + 11 > -20$$



By the end of this lesson you will be able to\_\_\_\_\_\_ When you divide by a negative value, to keep the inequality true, do what? When you multiply by a negative value, to keep the inequality true, do what?

Now it's your turn!

- 1) -2x > -10 2)  $\frac{x}{-5} \le 6$  3)  $\frac{-x}{3} \ge 15$  4) -x 9 < -5 5) 5x + 2 > -13 6)  $\frac{x}{5} 3 \le -2$

Switching the Inequality Sign Video 2

When do we flip the inequality sign?\_\_\_\_\_

But, Why?



The pink dot (P) is -6 and the purple dot (B) is 2 so Pink is less than Purple

written mathematically, P B

If we add two to each side, P=-4 and B=4 so P is still B

If I subtract 5 from both sides, P=-9 and B will =-1 so Pis still B



If I take the same inequality -6<2 and multiply both sides by 2 I get -12<4. Still true. But what if I multiply -6<2 by a NEGATIVE 2?



-6times -2=12 and -2 times 2=-4 so now we have 12<-4 THAT CAN'T BE RIGHT!

So we \_\_\_\_\_ the inequality symbol to make it right

## What Makes a Good Sample

	you are collecting data, why do you nee					
······································						
\/\hat	makes a good sample?					
•						
. •	***************************************					
•						
6.						
Vhat i	is a random sample?					
	mine if the following situation is a good ra Your teacher is going to give a prize to a basket and pulls out one name at a ti	10 students in the	e class. Your t	eacher puts	every studer	nts' name into
	Your teacher is going to give a prize to a basket and pulls out one name at a ti	10 students in the me. some changes to				
1.	Your teacher is going to give a prize to a basket and pulls out one name at a time.  Your school cafeteria is going to make	10 students in the me. some changes to ut the menu.	the menu. Th	ney ask the fi	irst 150 stud	ents in the
2.	Your teacher is going to give a prize to a basket and pulls out one name at a time.  Your school cafeteria is going to make a cafeteria what they would change about Your school is going to get some new page 2.	10 students in the ime. some changes to ut the menu. ohysical education	the menu. The menu. The menu.	ney ask the fi	irst 150 stud	ents in the

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Notes:

## Now you try!

1.	Your teacher is going to give a prize to 10 students in the class. Your teacher puts every girls' name into a basket and pulls out one name at a time.
2.	Your school cafeteria is going to make some changes to the menu. They ask the 20 students randomly selected from each grade level what they would change about the menu.
3.	Your school is going to get some new basketball equipment. They randomly select 15 members of the baseball and soccer team to get their opinion.
4.	Your PTA is going to pay for a cultural arts assembly. They put all 10 of the options in a bag and pull out one.
5.	Your school is going to have a fundraiser. They ask 5 girls and 5 boys from each class to see what events they would like to have in order to raise money for the school.