

Name: _____ Community: _____ Dates: _____ to _____
 7 Math / Science Q1 W1 & W2

Big Ideas:

General	Math	Science
<ul style="list-style-type: none"> • Orientation/Fall camp • Structure and Organization of math/science classroom 	<ul style="list-style-type: none"> • Absolute value • Extending the number line and moving along the number line 	<ul style="list-style-type: none"> • Lab safety • Parts and purpose of a lab

Upcoming Dates: (Not shelf work)

- On the Bridge Seminar (____%) Date: _____
- Due date for Forms (including fall camp permission slips) (____✓, M, 0) Due Date: _____
- Binder, Portfolio (and Portfolio reflections) and Planner check (____✓, M, 0)

Shelfwork :	Science Lesson #1: Lab safety	Math Lesson #1: Number line and Absolute Value	Science Lesson #2: Parts and purpose of a lab	Math Lesson #2: Adding, subtracting, multiplying and dividing pos. and neg. integers
Explore (Required)	<input type="checkbox"/> Experimental design vocab and scenarios (____✓, M, 0) <input type="checkbox"/> Create your own experimental design foldable (see instructions in binder) (____✓, M, 0)	<input type="checkbox"/> Warmup (____%) <input type="checkbox"/> AV Practice worksheet (____✓, M, 0) <input type="checkbox"/> Versatile (____✓, M, 0)	<input type="checkbox"/> Lab safety cartoon (____✓, M, 0) <input type="checkbox"/> Spongebob lab safety (____✓, M, 0)	<input type="checkbox"/> warmup (____%) <input type="checkbox"/> Integer Card Layout (____✓, M, 0) <input type="checkbox"/> Versatile (____✓, M, 0) <input type="checkbox"/> Vocab card layout (____✓, M, 0)
Expand (Choice)	<input type="checkbox"/> Choose 1: <input type="checkbox"/> Option 2	Choose 1: <input type="checkbox"/> Create a card layout (at least 10 pieces) <input type="checkbox"/> Create a product card. (See Card packet)	Choose 1: <input type="checkbox"/> Create lab safety layout (at least 10 pieces, include directions, and control) (____✓, M, 0) <input type="checkbox"/> G: Create Lab Safety Instructional "Video" script (____✓, M, 0)	Choose 1: <input type="checkbox"/> Create a card layout (at least 10 pieces) <input type="checkbox"/> Create a product card. (See Card packet)
Extend (Optional)	<input type="checkbox"/> Choose 1:	<input type="checkbox"/>	Choose 1:	Choose 1:

Choice Reloop:

	Science Lesson #1	Math Lesson #1	Science Lesson #2	Math Lesson #2
Review <input type="checkbox"/>	Choose 1: <input type="checkbox"/> Re-watch video lesson <input type="checkbox"/> Review lesson notes <input type="checkbox"/> Request a mini lesson	Choose 1: <input type="checkbox"/> Re-watch video lesson <input type="checkbox"/> Review lesson notes (handwritten copy) <input type="checkbox"/> Request a mini lesson	Choose 1: <input type="checkbox"/> Re-watch video lesson <input type="checkbox"/> Review lesson notes <input type="checkbox"/> Request a mini lesson	Choose 1: <input type="checkbox"/> Re-watch video lesson <input type="checkbox"/> Review lesson notes <input type="checkbox"/> Request a mini lesson
Revisit Explore <input type="checkbox"/>	Choose 1: <input type="checkbox"/> Option 1 <input type="checkbox"/> Option 2	Choose 1: <input type="checkbox"/> Option 1 <input type="checkbox"/> Option 2	Choose 1: <input type="checkbox"/> Option 1 <input type="checkbox"/> Option 2	

Complete Individually Unless Noted by a "G" for Group

Work Plan*:

Day 1	
Day 2	
Day 3	
Day 4	
Day 5	

*if you do not complete something that you planned, it should be on your list for the next class period or completed as homework

Homework: (All assignments are due the next day you have Math or Science and MUST be checked with the control if not a video/lesson):
Finish binder set-up and portfolio reflections

- Tuesday 9/5: Complete any missing forms, integers and absolute value, Adding integers and Subtracting integers Video Notes
- Wednesday 9/6: Lab safety video watch and summarize: <https://goo.gl/P6gKcM>
- Thursday 9/7: Multiplying and Dividing Integers Video with Notes
- Friday 9/8: Complete any work you are behind on AND THEN, Enjoy your weekend!

Notes

Integers and Absolute Value Notes

Name _____

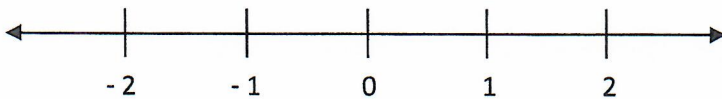
Integers: whole numbers and _____.

Also known as _____.



Absolute Value: The distance a number is from _____

Examples: $|2| =$ $|-2| =$



Because they are both 2 units away from 0



Pause the video and try these on your own!

Then press play and check your answers with a color pen

1) Place on a number line and list from least to greatest. - 6, 4, - 3, 1, - 5, 2



2) What is the opposite of 10?

3) What is the opposite of $|-4|$?

For questions 4 – 12, compare using $>$, $<$, or $=$. Use a number line if necessary.

4) -25 ____ 25

5) -42 ____ -40

6) -343 ____ -434

7) -33 ____ -37

8) $|-2|$ ____ 2

9) -4 ____ $|6|$

10) -4 ____ -7

11) $|-3|$ ____ $|-5|$

12) $4 + 6$ ____ $|-3| + 7$

Adding Integers Notes

Name _____

Positives:

Negatives:

<p>1. $5 + 3$ Picture:</p> <p>Are the signs the same or different? Answer:</p>	<p>2. $-5 + (-2)$ Picture:</p> <p>Are the signs the same or different? Answer:</p>
<p>3. $8 + 1$ Picture:</p> <p>Are the signs the same or different? Answer:</p>	<p>4. $-3 + (-2)$ Picture:</p> <p>Are the signs the same or different? Answer:</p>

If the integers being added are BOTH positive OR BOTH negative, you will _____ the numbers together. Then take the sign of the problem.

<p>5. $-5 + 3$ Picture:</p> <p>Are the signs the same or different? Answer:</p>	<p>6. $5 + (-3)$ Picture:</p> <p>Are the signs the same or different? Answer:</p>
<p>7. $-7 + 3$ Picture:</p> <p>Are the signs the same or different? Answer:</p>	<p>8. $-2 + 4$ Picture:</p> <p>Are the signs the same or different? Answer:</p>

When the integers being added DO NOT have the same sign (one is positive, one is negative), you will _____ the little number from the big number. Then take the sign of the "bigger" number.



**Pause the video and try the problems on the back on your own!
Then press play and check your answers with a color pen.**

1) $-4 + (-3) =$

2) $45 + 33 =$

3) $-27 + 72 =$

4) $8 + (-8) =$

5) $-5 + 13 =$

6) $6 + (-14) + 20 =$

7) John scored 6 points in a game. Then lost 3, gained 10, and lost 12. Write an addition sentence to represent this situation. Then solve.

Subtracting Integers Notes

Name _____

Method 1: Using pictures

Positives:

Negatives:

1. $5 - 3$ Picture: Answer:	2. $-5 - (-2)$ Picture: Answer:
3. $-8 - 1$ Picture: Answer:	4. $3 - (-2)$ Picture: Answer:

Method 2: Using a rule

We don't subtract... We _____ the _____
then follow the rules of addition

Examples:

1) $-8 - (-2) =$

2) $4 - (-2) =$

3) $4 - 8 =$



Pause the video and try these problems on your own!

Then press play and check your answers with a color pen.

1) $-7 - (-5) =$

2) $2 - 8 =$

3) $-40 - 66 =$

4) $-90 - (-80) - 20 =$



Add or Subtract. Remember which integer rule you will use!

1. $-6 + (-8) =$

2. $14 - (-5) =$

3. $-17 - 5 =$

4. $15 + 17 =$

5. $-16 - 16 =$

6. $24 - 30 =$

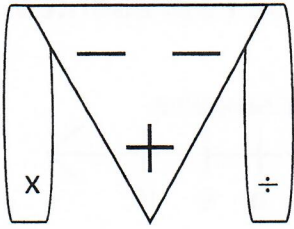
7. $-18 + 17 =$

8. $-22 + (-7) + 5 =$

9. $45 - (-3) + 4 =$

Multiplying and Dividing Integers Notes

Name _____



Cover up the sign for the integers you are dividing.

The one that is remaining is the sign of your answer.

If you have more than 2 numbers, you just do two at a time.

Examples:

1. $2(-6) =$

2. $-3 \cdot -4 =$

3. $-24 \div -6 =$

4. $18 \div 3 =$



Pause the video and try problems # 1- 6 on your own!

Then press play and check your answers with a color pen.

1. $-2(7) =$

2. $-6(-8) =$

3. $6(-2)(-3) =$

4. $-48 \div -6 =$

5. $-32 \div 8 =$

6. $55 \div 11 =$

NOTES: Exponents

1) Write it out in expanded form.

2) Solve going left to right.

Example:

1. $(-5)^4 =$

2. $(-2)^3 =$

Averages

1) Add the values using your integer rules.

2) Divide by how many values you have.

Monday	Tuesday	Wednesday	Thursday	Friday
-\$1	\$3	\$2	-\$5	\$6

What is the average price for the week?



Pause the video and try these problems on your own!

Then press play and check your answers with a color pen.

1. $(-3)^3 =$

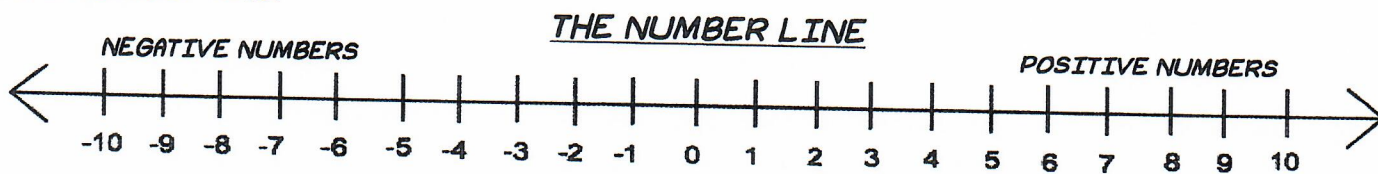
2. $(-4)^2 =$

3. What is the average price for the week?

Monday	Tuesday	Wednesday	Thursday	Friday
-\$8	\$13	\$12	-\$7	\$10

INTEGER CHEAT SHEET

Integers- A set of positive and negative whole numbers. They can be represented on a number line.



Absolute Value- The distance a number is from zero on the number line. An absolute value is never negative. Examples: $|-5| = 5$ and $|5| = 5$

ADDING INTEGERS

SAME SIGN- Add and Keep the Sign!

Add the absolute value of the numbers and keep the same sign.

(positive) + (positive) = Positive

$$(+4) + (+5) = +9$$

(negative) + (negative) = Negative

$$(-4) + (-5) = -9$$

DIFFERENT SIGNS- Subtract and Keep the Sign of the Bigger Number!

Subtract the absolute value of the numbers and keep the sign of the bigger number.

$$(-4) + (+5) = +1$$

$$(+4) + (-5) = -1$$

SUBTRACTING INTEGERS

Do not subtract integers. You must change the signs:

"Add the Opposite"

KEEP- Keep the sign of the first number

CHANGE- Change the subtraction sign to addition

CHANGE- Change the sign of the second number to the opposite sign. If it is positive- change to negative. If it is negative- change to positive.

$$(+4) - (-4)$$

Keep change change
(+4) + (+4)

NOW USE THE RULES FOR ADDING:
SAME SIGN- Add absolute values and keep sign:

$$(+4) + (+4) = 8$$

MULTPLYING INTEGERS

SAME SIGNS- POSITIVE

Multiply the numbers. Answer will be positive.

$$(-5) \times (-5) = +25$$

DIFFERENT SIGNS- NEGATIVE

Multiply the numbers. Answer will be negative

$$(+5) \times (-5) = -25$$

DIVIDING INTEGERS

SAME SIGNS- POSITIVE

Divide the numbers. Answer will be positive.

$$(-5) \div (-5) = +1$$

DIFFERENT SIGNS- NEGATIVE

Divide the numbers. Answer will be negative

$$(+5) \div (-5) = -1$$