6th Grade
April 20, 2021

Today we will:

-Introduce your Unit 8 project: function machine

HOMEWORK:

Video notes

OPTIONAL Assignment on equations for points back on quiz due FRIDAY, APRIL 23

ALEKS time and topics due Monday

Function Machine project due TUESDAY, APRIL 27

Function Machine introduction video is posted on Edpuzzle

Name_____ Class_____ Date Due Tuesday, April 27

Function Machine Project

DIRECTIONS:

You will create a poster of a Function Machine of your own design and then write about it. Your requirements are the following:

1. A title for your Function Machine. Make it creative and directly related to your machine and its purpose.
2. A detailed drawing of your Function Machine. It must be neat and good quality as well as appropriate. It must fill the paper and have color.
3. An example input/output table with a minimum of 3 inputs and outputs.
4. A 5-sentence paragraph that describes your Function Machine. Use details: What does it look like? What does it sound like? How big is it? What is it made out of? Where would I find it? What is it used for? Who would use it? Sentences are not limited to these topics, but these questions can help you with your writing.
5. A 5-sentence paragraph that tells why your Function Machine represents a mathematical "function." **Use the definition of a function from your notes in your answer**. Use your math vocabulary and examples to back up the fact that your machine does, in fact, use a "function."

The grading rubric is on the back of this sheet. Use it as you create your poster and write your paragraphs so that you earn all possible points. **This is a TEST GRADE.**

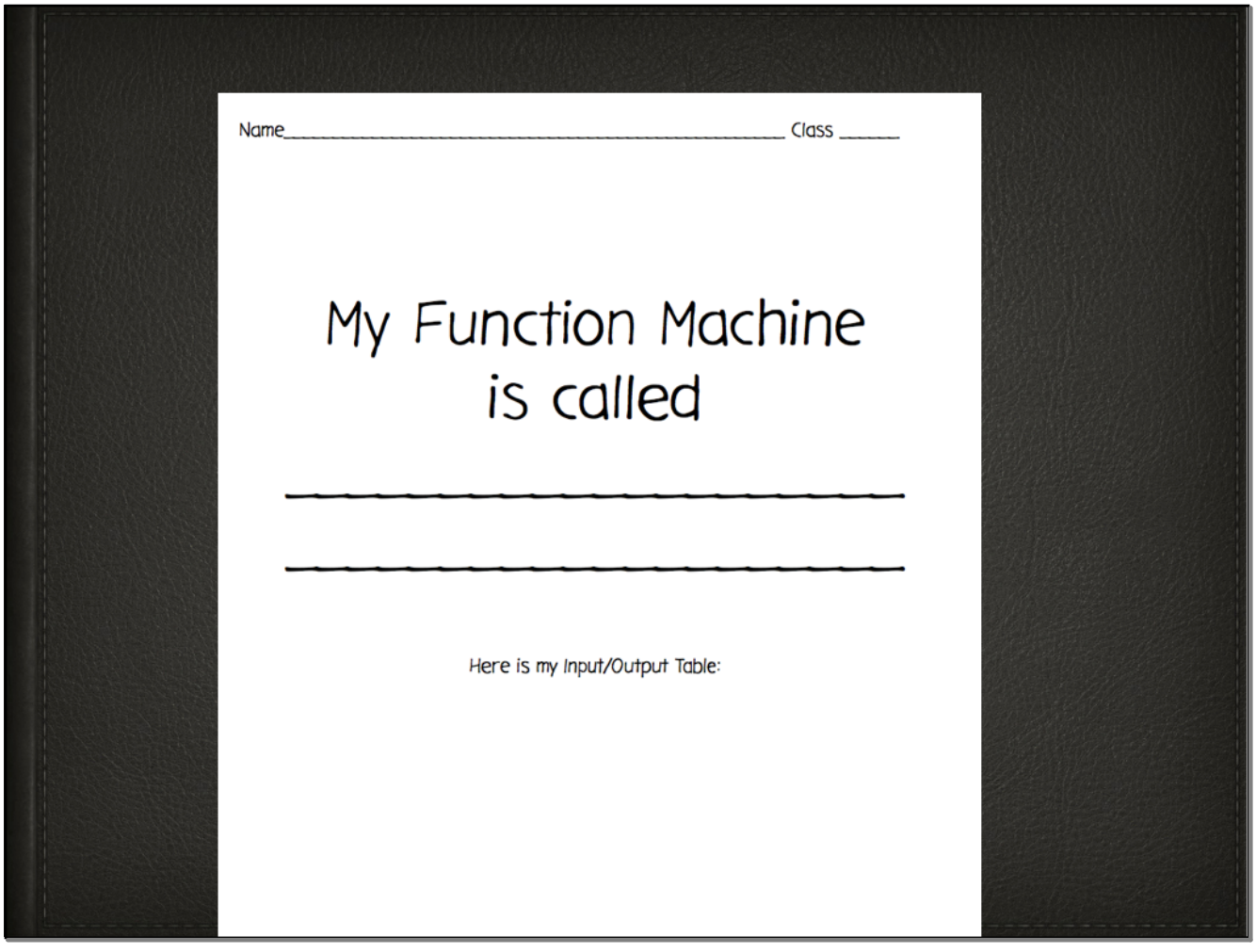
You are also provided with a sheet to fill out for the writing portion of the assignment. This is where you will write your final draft. **Use a separate sheet of paper for your rough draft, and rewrite your final copy on this attached sheet to turn in.** It should be written in pen and be clean, neat, and free of spelling and grammar errors. See the rubric for more details of what your paragraph should include.

Video of directions is posted in Edpuzzle

Function Machine Project

Your project will be graded using the following rubric. Please pay close attention to the rubric as you design and create your poster. Although the scores listed are 5, 3, and 1 for each column, it is possible to also earn points in between these scores.

	5	3	1
Title	Title is creative, directly related the Function Machine, and is prominently displayed on the project.	Title is generic, does not directly relate to the Function Machine, and is not prominently displayed on the poster.	Title is missing or inappropriate.
Images of Function Machine	Images/illustrations are clear and relevant to the Function Machine.	Images/illustrations are poor quality or not relevant to the Function Machine.	Images/illustrations are missing or inappropriate.
Example Input/Output table	Table is clear, has a minimum of 3 inputs and outputs, and relates directly to the Function Machine.	Table is unclear, has 3 or fewer inputs, and only loosely relates to the Function Machine.	Table is missing, does not relate to the Function Machine or contains major mistakes or misconceptions.
Description of how the Function Machine works	Description is accurate for how the Function Machine works and uses correct punctuation, spelling, and grammar.	Description is accurate for how the Function Machine works and has only minor mistakes in punctuation, spelling, or grammar.	Description is inaccurate for how the Function Machine works and has several punctuation, spelling, or grammar mistakes.
Justification for why your Function Machine represents a mathematical "function"	Justification clearly relates Function Machine to the mathematical definition of a "function" and is free from punctuation, spelling, and grammatical errors.	Justification loosely ties together the Function Machine and the mathematical definition of "function" and has minor punctuation, spelling, or grammatical errors.	Justification is missing or does not adequately explain how the Function Machine relates to the mathematical definition of "function."



Name_____ Class _____

My Function Machine is called

_____

_____

Here is my Input/Output Table:

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Here is My 5-Sentence Paragraph that Describes How My Function Machine Works:

Here is My 5-Sentence Paragraph that Describes
Why My Function Machine Represents a Mathematic Function:

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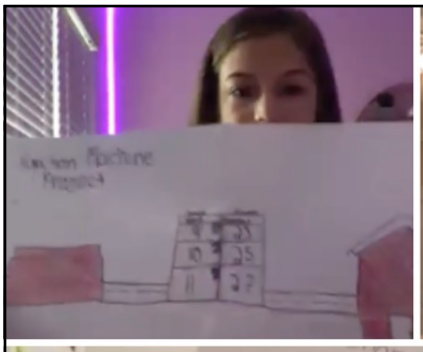

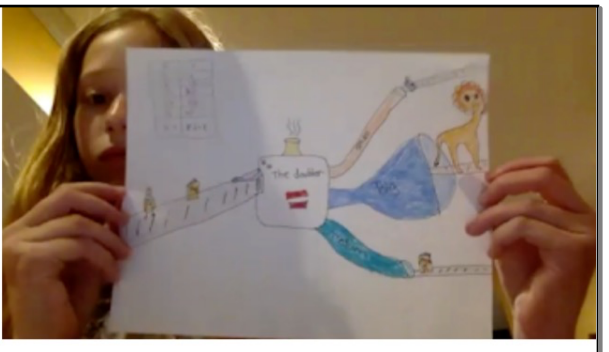

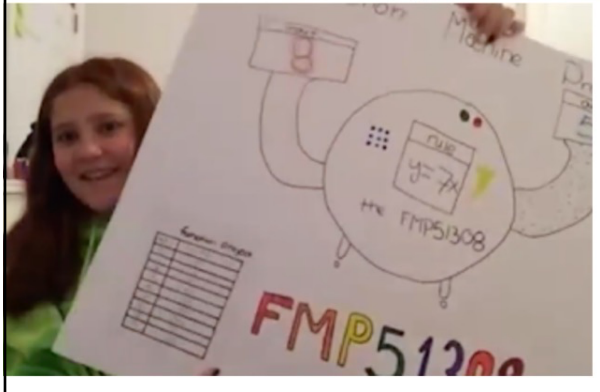

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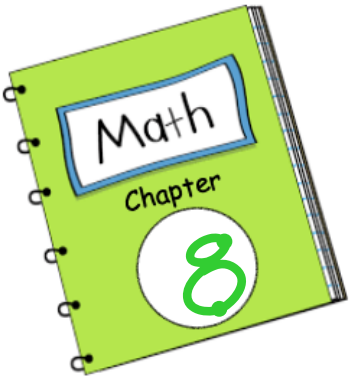

TITLE: Functions

Date	Lesson	Topic/Assignment
4/12	1	Function Tables In-Class Notes
4/13	1	HOMEWORK: Homework Practice WS
4/13	1	CLASSWORK: Pg583 WS
4/14	2	Function Rules Video Notes and In-Class Notes
4/15	2	HOMEWORK: Practice WS
4/15	2	CLASSWORK: Extra Practice WS
4/16	3	Functions and Equations In-Class Notes
4/19	3	CLASSWORK: Pg 599 WS

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Name _____

Unit ___ Lesson _____ Due Date _____

Inequalities Video Notes, Ch8 Lesson 5, April 20

INEQUALITIES

LESS THAN $<$	GREATER THAN $>$	LESS THAN OR EQUAL TO $\leq$	GREATER THAN OR EQUAL TO $\geq$
Represented on a number line with an open circle. ○	Represented on a number line with an open circle. ○	Represented on a number line with a closed circle. ●	Represented on a number line with a closed circle. ●

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Graph the inequalities on the number lines and describe the possible solutions on the lines provided.

$x < 3$	$x > 3$	$x \leq 3$	$x \geq 3$
-3 -2 -1 0 1 2 3	-3 -2 -1 0 1 2 3	-3 -2 -1 0 1 2 3	-3 -2 -1 0 1 2 3

Is the given value a solution of the inequality?

$x + 2 < 6$	$x - 5 > 1$	$2x + 1 \leq 11$	$3x + 7 \geq 19$
$x=3$	$x=8$	$x=6$	$x=4$

If a bakery sells more than 45 bagels a day, they make a profit. If b is the number of bagels, then I can say the bakery will make a profit when: _____.
Using this inequality, I can determine that the days the bakery makes a profit are:_____

Day	Number of Bagels Sold
Monday	18
Tuesday	25
Wednesday	21
Thursday	36
Friday	50
Saturday	48
Sunday	40