ALGEBRA I EXTRA CREDIT ASSIGNMENT

Choose one of the tasks below. The final product is due by Friday 10/31. Each six weeks you may choose a different product to complete for extra credit. See attached rubrics for scoring guidelines. WORTH ONE QUIZ GRADE!

PROJECTS OVERVIEW

Trading Cards	Choose 4 mathematicians and create trading cards for each. Research biographical information on each one. Use 3 x 5 index cards to make a trading card for each of the mathematicians you choose. The front of the card contains Mathematician name, mathematician's picture, your own personal logo. The back of the card contains Mathematician name, date of birth, Place of birth (city, state, country), date of death (if deceased) contribution to mathematics, and explain how contribution affects your life
Brochure	Create a 3-fold (6 columns) brochure. All text must be typed. The brochure must contain 1. A title and a picture of a famous mathematician. 2. Information about his/her birth (date, locations, parents) and death if deceased 3. Information about his/her early childhood and family, places lived 4. Information about his/her education 5. A description of contributions to the field of mathematics 6. A timeline of where your person fits in history-what events were taking place during his/her lifetime 7. Quotations by or about your mathematician Remember to document your resources. You must use at least 2 resources.
Poster Board	Make a bulletin board using poster board. Some examples would be collage of all the uses of Math in Everyday Life, a bulletin board of Famous Mathematicians, or a bulletin board How Math is Used in Sports. *Get your topic approved by Ms. K before beginning*
Math Puzzle	Make a math puzzle. Examples include but are not limited to number search, cross-number puzzle, crossword puzzle using mathematical terms, word search using mathematical terms. You should have at least 25 problems in each puzzle. You must include an answer key.
Research Paper	Research a famous mathematician, mathematical concepts, or any mathematical idea. Then write a research paper of a minimum of 200 words. You must cite at least two sources and the research paper must be typed. *Get your topic approved by Ms. K before beginning*



Task: You will...

- Choose 4 mathematicians and create a trading card for each one.
- Research biographical information on each one.
- Use a 3 x 5 index cards to make a trading card for each of the mathematicians you choose.

The card will should have the following:

- The front of the card should contain...
 - o The mathematician's name
 - o The mathematician's picture
 - o Your own personal logo for that mathematician
- The back of the card should contain...
 - o The mathematician's date of birth
 - o The mathematician's place of birth (city, state, country)
 - o The mathematician's date of death (if deceased)
 - o The mathematician's contribution to mathematics
 - o An explanation of how this contribution affects your life.

Resources

- · You must cite where all of your information came from and include that in your trading cards
- You may NOT use Wikipedia as your resource

Rubric:

	Requirements	Details	Points Possible
Front of Card	NamePicturePersonal Logo	 ✓ Accurate full name ✓ Accurate picture ✓ Detailed and unique logo that connects to the mathematician 	/5
	Date of Birth and DeathPlace of Birth	✓ Accurate date of birth and death✓ Accurate place or birth	/5
Back of Card	Contribution to Mathematics	✓ Detailed and accurate description of contribution	/5
	Explanation of Effect on YOUR Life	✓ Detailed and thoughtful explanation of how the mathematician's works have effected YOUR life	/5
Resources	Information is appropriately cited	✓ Resource used for any direct quotes or paraphrasing is included on each card	/3
Creativity and Neatness	Unique and neat completion of all parts	✓ Colorful picture and logo✓ All sentences, phrases, etc. must be easy to read	/2
		Total	/25

You will be graded on this rubric for each trading card you create. Your final grade will be scored out of 100.

Brochure

Task: You will...

• Create a 3-fold (6 columns) brochure. It may be written or typed. If it is written, it must be extremely neat and easy to read.

The brochure must contain the following:

- A title and a picture of a famous mathematician
- Information about his/her birth (date, location, parents) and death if deceased
- Information about his/her early childhood and family, places lived
- Information about his/her education
- A description of contributions to the field of mathematics
- A timeline of where you person fits in history what events were taking place during his/her lifetime
- Quotations by or about your mathematician

Resources

- You must cite where all of your information came from and include that in your brochure
- You may NOT use Wikipedia as your resource

Rubric:

	Requirements	Points Possible
Title and picture	Informative title of brochureAccurate picture of mathematician	/10
Information about birth and death	 Date of Birth and Death Place of Birth Information on parents Similar information if deceased 	/15
Information about early childhood	SiblingsPlaces livedImportant events	/15
Information about education	Schooling receivedImpact of school on mathematician	/15
Contributions	Why is this mathematician famous?What did they contribute to math?	/15
Timeline	 Important events in the mathematician's life Important historical events that happened around the same time 	/15
Quotations	At least one quotation by or about the mathematician	/5
Resources	Information is appropriately cited	/5
Creativity and Neatness	Unique and neat completion of all parts	/5
	Total	/100

BUULEUU Board

Task: You will...

• Create a bulletin board using poster board regarding mathematics somehow. You have freedom here to choose what your bulletin board covers. Some possible topics include: "The Uses of Math in Everyday Life", "Famous Mathematicians", "How Math is Used in Sports", etc.

The bulletin board must contain the following:

- A main title
- At least 5 items or examples that relate to or explain your topic
- Each example must be titled
- A picture that goes with each example
- A short description as to how this example relates to the topic
- An overall description of how all of these examples somehow affect YOUR life

Resources

- You must cite where all of your information came from and include that in your bulletin board
- You may NOT use Wikipedia as your resource

Rubrics:

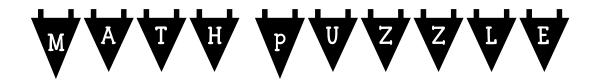
Rubric for the Overall Bulletin Board Pieces:

	Requirements	Points Possible
Main title	 Title is eye-catching Title lets the reader easily understand what the bulletin board is about 	/5
Overall description of how the examples affect YOUR life	 At least 5 sentences Thoughtful sentences about how your topics and examples affect YOUR life 	/15
Resources	Information is appropriately cited	/5
Creativity and Neatness	 Unique and neat completion of all parts 	/5
	Total	/30

Rubric for Each Example:

	Requirements	Points Possible
Title & Picture	Title is informativePicture relates to example	/5
Description	 At least 3 sentences Informative and easy to understand explanation of how the given example relates to the overall topic 	/9
	Total	/14

You will be graded on this rubric for each example you include.



Task: You will...

• Create 2 mathematical puzzles. Some examples include, but are not limited to: number search, crossnumber puzzle, crossword puzzle using mathematical terms, word search using mathematical terms, etc. **Each puzzle should be a different type of puzzle**.

The puzzles must contain the following:

- A title for each puzzle
- Instructions as to how to complete the given puzzle
- At least 25 problems
- An answer key
- Work as to how your answer key relates to your problems
- Explanation as to why you chose to create that type of puzzle

Rubric:

	Requirements	Points Possible
Title	Eye-catching title	/3
Instructions	 Instructions are informative Instructions are easy to read Instructions are easy to follow 	/8
Twenty Five Problems	 Problems are challenging Problems are written mathematically correct 	/12
Answer Key	Correct work shown for each answerEach answer is correct	/16
Explanation	 At least 3 sentences Thoughtful sentences as to why you chose to create these types of puzzles 	/8
Creativity and Neatness	Unique and neat completion of all parts	/3
	Total	/50

You will be graded on this rubric for each puzzle you create. Your final grade will be scored out of 100.

RESEARCH PAPER

Task: You will...

• Complete a TYPED 200 word research paper. You may choose the topic you research. Some examples include but are not limited to research on a famous mathematician, mathematical concepts, or any mathematical idea.

The research paper must contain the following:

- A title
- Minimum of 200 words
- Introductory paragraph outlines what you chose for your research topic
- Three body paragraphs each paragraph covers a topic that supports your main topic
- Closing paragraph
- At least two resources
- It must all be typed

Resources

- · You must cite where all of your information came from and include that in your research paper
- You may NOT use Wikipedia as your resource

Rubric:

	Requirements	Points Possible
Title	Eye-catching and informative title	/5
Typed 200 Words	All 200 words are typed	/5
Introductory Paragraph	 At least 3 sentences Describes what you chose to research Outlines what you are going to cover in the body paragraphs 	/15
Body Paragraph #1	At least 4 sentencesIs connected to the main research topic	/15
Body Paragraph #2	At least 4 sentencesIs connected to the main research topic	/15
Body Paragraph #3	At least 4 sentencesIs connected to the main research topic	/15
Closing Paragraph	 Wraps up how the body paragraphs connect to the research topic Covers how the research topic has an effect on YOUR life 	/15
Resources	Information is appropriately citedAt least two resources are used	/5
Paper Quality	 Paragraphs are smoothly connected Effort put forth to minimize repetitive words Minimum grammatical and spelling errors 	/10
	Total	/100