

# If Mathematicians Took Over the Gram

Name: \_\_\_\_\_ Presentation Date: **5/26**

## Project Overview

**Who:** A famous mathematician

**What:** \*Google Slides\* Instagram feed with profile picture, bio, and 6-8 posts (picture WITH captions) and an outline of your research with a works cited page

**Where:** Find all resources, templates, and directions in your Google Classroom

**When:** Working in class 5/18 – 5/24

Presenting rough draft and making edits 5/25 in the Library!

Presenting FINAL 5/26 in the Library!

\*\*\*You're going to be absent? Submit your Google Slides, Outline, and Works Cited before 5/26 and be ready to present to your teacher or class\*\*\*

**Why:** How do the lives and work of famous mathematicians relate to our district's mission statement, the SMPs, and our work in Grade 8 Math?

**How will you demonstrate your understanding of this question:**

- o Create an Instagram feed as the mathematician you choose to research
- o Include a profile picture of your mathematician (use a true photo of your mathematician if possible)
- o Create an insta bio for your mathematician. This is where you include things like Birthday, Hometown, Astrology sign, Significant other...You get the gist :)
- o Research things about their life **OUTSIDE of math**
  - o What were they like as a person? (WHaaaaaaT mathematicians are people? Yea I know hard to believe)
  - o How does your mathematician exemplify our **Mission Statement**?
  - o How does your mathematician use the **SMPs**?
- o Research things about their life **involving math**
  - o What did they discover?
  - o Who did they work with?
  - o How does this relate to what WE do in our class?
  - o Are there any connections to the mission or SMPs?
- o Create 6-8 posts that include a **relevant photo** and summaries of your research explaining the photo as your caption
- o Be prepared to share your feed with classmates AND teachers briefly on 5/26 in the Library in the form of a gallery walk. (You will assume the role of your mathematician as you present and answer questions from your classmates)



## MECHANICSBURG AREA SCHOOL DISTRICT

### OUR MISSION STATEMENT

The mission of the Mechanicsburg Area School District is to develop:

- Resilient, self-directed learners able to achieve personal goals
- Critical and creative thinkers capable of transferring knowledge to new situations
- Collaborative team players with effective communication skills
- Productive, responsible citizens in a diverse and ever-changing global society

### OUR VISION

A Learning Community  
Inspired to Explore ~ Empowered to Innovate

## Standards for Student Mathematical Practice

**1** **Make sense of problems and persevere in solving them.**

**Keep on going !**

**2** **Reason abstractly and quantitatively.**

Write a story for the mathematical equation

$\frac{1}{2} \times 4$

DeJuan exercises  $\frac{1}{2}$  hour a day for 4 days.  
How many total hours does he exercise?

**Think what makes sense.**

**3** **Construct viable arguments and critique the reasoning of others.**

$\frac{2}{4} = \frac{1}{2}$  I agree.

**Talk and explain.**

**4** **Model with mathematics.**

Hours 0  $\frac{1}{2}$  1  $\frac{1}{2}$  2

$\frac{1}{2} \times 4 = 2$  or  $4 \times \frac{1}{2} = 2$

**Show your thinking.**

**5** **Use appropriate tools strategically.**

$3 \times 2 = 6$

**Use the right tools.**

**6** **Attend to precision.**

symbol: equals (the same as)

$120 \text{ minutes} = 2 \text{ hours}$

units of measure

**Check your work.**

**7** **Look for and make use of structure.**

$8 + 4 = 12$

**See the pattern or connection.**

**8** **Look for and express regularity in repeated reasoning.**

**See the pattern or connection.**

Grading Checklist:

Name: \_\_\_\_\_

\_\_\_/5 Research is clearly outlined and typed in an organized manner (use the template to assist you)

\_\_\_/2 Research is presented in the form of an Instagram profile/feed using the provided template in Google Slides

\_\_\_/30  
5 points per post, 2 for the photo 3 for the caption  
Profile includes 6-8 posts (six minimum, each post after 6 will be worth 1 bonus point up to 8 posts). Posts include both a photo AND caption. Photos and captions are relevant to each other, the mathematician, and the research conducted

\_\_\_/4 At minimum, 4 sources (NOT including Wikipedia) must be used to conduct research. ALL sources must be cited on a separate "Works Cited" page attached to the outline

\_\_\_/5 All work is **neat, organized, AND creative!!** No photos are stretched or distorted, posts are unique, thoughtful, and in timely order (unless posted as a "throwback").

\_\_\_/2 On-topic discussions as your mathematician with classmates and teachers on 5/26 (See your teacher if you will be absent this day)

\_\_\_/4 At least one post includes a connection to our **Mission Statement, AND** and at least one post includes a connection to the **SMPs** (BONUS point: if one post relates the mathematician to **yourself**)

NOTE: There will be a **10% deduction** for every school day that this project is late. **After 6/5, the grade will be entered as a zero and will not be adjusted.**

\_\_\_\_\_/ **52 + 3**

## **Checklist with Goal Dates:**

- (5/18)\_\_\_\_\_ Read and understand the Instagram Project directions
- (5/19)\_\_\_\_\_ Pick your mathematician - do NOT research until you OFFICIALLY sign up for your mathematician
- (5/19)\_\_\_\_\_ Begin researching information about your mathematician and organize this information into an outline (a template is provided to help you)
- (5/19)\_\_\_\_\_ Copy and paste links used for research into the outline to help create your Works Cited
- (5/22)\_\_\_\_\_ Finish researching information about your mathematician and organize this information into an outline
- (5/22)\_\_\_\_\_ Copy and paste links used for research into the outline to help create your Works Cited
- (5/22)\_\_\_\_\_ Develop an Instagram username that suits your mathematician
- (5/23)\_\_\_\_\_ Find pictures that correspond to and relate to your research
- (5/23)\_\_\_\_\_ Copy the photos into your Google Slides Template (we will edit the photos later in the checklist, it is best to find all of your photos first)
- (5/23) \_\_\_\_\_ Find a profile photo for your mathematician
- (5/23)\_\_\_\_\_ Crop your profile photo (circle) and post photos (square) to fit the Instagram account profile (Slide 1)
- (5/23)\_\_\_\_\_ Order your photos/posts
- (5/23)\_\_\_\_\_ Crop each photo for each post into a square and align it on the template (slides 2-9)
- (5/24)\_\_\_\_\_ Develop captions for yours posts (use hashtags and emojis appropriately)
- (5/24)\_\_\_\_\_ Identify which post relates to the mission by tagging it "#MMSMission"
- (5/24)\_\_\_\_\_ Identify which post relates to the SMPs by tagging it "#SMP"
- (5/24)\_\_\_\_\_ Identify any bonus posts (two extra posts, and/or post relating to self) by tagging them "#ExtraPost" or "RelatesToMe"
- (5/24)\_\_\_\_\_ Prepare for discussions and questions you may get for each post!
- (5/25)\_\_\_\_\_ Practice your discussions and make edits as needed (LIBRARY)
- (5/26)\_\_\_\_\_ FINAL Presentations (LIBRARY)
- (5/26)\_\_\_\_\_ TURN IN ALL PARTS OF YOUR PROJECT IN GOOGLE CLASSROOM! Your teacher will NOT grade this unless it is TURNED IN!
  - \_\_\_ Google Slides (Instagram profile and posts)
  - \_\_\_ Outline of Research
  - \_\_\_ Works Cited (4 sources NOT including Wikipedia)