



SUMMER LAUNCH

CLASS OF 2025

School-wide Interdisciplinary Summer Reading Initiative Class of 2025

Schoolwide guidelines:

- Book Assignment
 - **Class of 2025 - Project HAIL MARY by Andy Weir**
 - English & Mathematics
 - Creative Project due Orientation Day ie **August 27, 2024**
 - You will hear from our English (Mr. T. Hewitt) or Math (Mr. D. Burhanna) Discipline Coordinators with more information on how to submit the creative project digitally (if necessary) in August.
 - Extemporaneous Writing - prompt will be provided on **September 3, 2024** and completed in homeroom during community time that day
- Schoolwide Standards
 - Students are encouraged to annotate the hardcopy of the book while reading and are permitted to use **ONLY** the hardcopy during the writing assessment on September 3, 2024
 - For each book, a reading guide is provided. Students should complete this reading guide as they progress through the book. The reading guide is ungraded and designed to assist the students as they prepare for the extemporaneous writing prompt - think of the reading guide as a study guide. Students will not be permitted to use or reference their completed reading guide when answering the writing prompt.
 - Grading
 - What will the weighting be?
 - Quiz or quiz equivalent
 - Where will the grade land in the grade books?
 - The grade will land in **both** discipline's grade books.
 - If you are enrolled in two math classes, the grade will land in the higher rigor level class.
 - How will the grade be calculated?
 - A single, blended grade based on the rubric scores for the creative project and the response to the extemporaneous

writing prompt

- The final grade is a 50/50 blend of the rubric score on the creative project and the rubric score on the writing prompt.
- Students who complete only one part (either project or writing prompt) of the assignment on time (firm deadlines) will earn a 50. Students who do not complete either part of the summer work on time (firm deadlines) will receive a zero.

Reading Guide for *Project HAIL MARY*

You are being tasked with finding connections between the Mathematical and the English/Literary components of the novel, *Project Hail Mary*.

No other notes are permitted for the written assessment-- only a paper copy of the book will be permitted in the written portion of the assignment. Your copy of the novel can be thoroughly annotated, so use the points/ideas/questions below to guide you. If completely thoughtfully, this study guide will *prepare** you to successfully complete the graded assessments.

***The study guide itself cannot be used during the writing assessment.
Put all of your notes in your copy of the book.**

Things to keep in mind while reading:

- What connections do you find, both literal and literary, between Math and English?
- How does math directly affect the plot and structure of the narrative?
- How does math define the character(s)?
- Is tone communicated differently in specifically scientific and mathematical moments, vs. more humanistic moments?
- In what ways does mathematics drive the plot?
- In what ways is math used as a literary tool to define or enhance building metaphors in the text?

- **A try-fail-try-fail cycle continuously rotates through the narrative.**

It will be helpful to group the text into the following three parts.

1. Discovery: Chapters 1-9
2. Central Problem /Solving the Task: Chapters 10-21
3. Executing the Solution: Chapters 22 to $\forall e$

Chapter Groupings:

The Title

The Delta ***symbol*** is used in place of A in the title. Consider what this might communicate or foreshadow about the work. #symbolism

Discovery: Chapter 1 to 9

Consider:

- The connection between questioning, problem solving, computation, and mathematics in this particular section
- Logic and sequence that drive the actions AND creates the readers' interactions in decoding the circumstances

Central Problem /Solving the Task: Chapter 10 to 21

Consider:

- Language acquisition
- Communication in general
- Language as the object that connects us
- A numerical base system that is different from our own
- The connection between questioning, problem solving, computation, and mathematics in this particular section
- Logic and sequence that drive the actions AND creates the readers' interactions in decoding the circumstances

Chapter 22 to Chapter $\forall e$

Note: Understand that all of the above focus points cumulatively apply to this section.

Consider:

- The culmination of the mathematics in the book
- The resolution of the actions

Hint: Be prepared to detail the way/s in which Andy Weir is able to connect math and literature in the novel.

Creative Project

You are tasked with creating a dynamic project that highlights the mathematical component of the text. This can be delivered in mostly any medium. The list is extensive. In your school career, you have done many projects. At least one type should have revealed your unique approach to learning.

Podcast/ video (min 3 minutes/ max 7 minutes)

Physical model/ depiction.

Charts

Mobile

Surprise us!

For more specific details of how the project should communicate the mathematical component(s) of the book, see the rubric.

Consider the ways in which the project explores the English/ Literary component(s) of the text.

Rubrics

Creative Component Rubric

| | Grow - Fell short of expectations (0 Points) | Got it! - Met Expectations (1 point) | Glow - Exceeded Expectations (2 points) |
|---|---|---|--|
| 1. Clearly Demonstrates a Mathematical Principle connected to the text. | | | |
| 2. Citation of chapter and page number from which the concept was developed. | | | |
| 3. Accurate/ Correct | | | |
| 4. Visually or Sensorially Dynamic | | | |
| 5. Polished (doesn't use pencil)/ Shows advanced effort/ Effort is clearly evident | | | |

19-20 points -100/ 16-18 points - 98/ 13-15 points - 95/ 10-12 points - 90/ 7-9 point - 80/ 1-6 below points - 50/ 0 - Zero

Essay Component Rubric

| | Grow - Fell short of expectations (0 Points) | Got it! - Met Expectations (1 point) | Glow - Exceeded Expectations (2 points) |
|---|---|---|--|
| 1. Well organized argument that supports your thesis | | | |
| 2. Two Textual Examples that efficiently support your connection between math and literature | | | |
| 3. Correct syntax, spelling, and grammar. | | | |
| 4. At least 3 paragraphs. | | | |
| 5. Clearly legible. | | | |

19-20 points - 100/ 16-18 points - 98/ 13-15 points - 95/ 10-12 points - 90/ 7-9 point - 80/ 1-6 below points - 50/ 0 - Zero