Exploration Outline and Math Report Name Period

The hard copy of your Typed Math must besingle-sided with 1 inch margins, double spaced, 12 pt Arial, Calibri, Tahoma, or Times New Roman. Bring two copies of this worksheet stapled to your typed math on Tuesday, October 10.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **The Math Report Rubric** |  | Total \_\_ /25 Test Points | | |
| Standard | Did not attempt | Does not approach  standard | Approaches standard | Meets standard |
| All work is typed using Math Type. | 0 | 1 | 2 | 3 |
| All variables and formulas are defined. | 0 | 1 | 2 | 3 |
| Used correct Mathematical Notation and terminologies.  *You will be penalized for using calculator notation such as 7\*x, x^3, etc.* | 0 | 1 | 2 | 3 |
| Explained your work and justified your process. | 0 | 1 | 2 | 4 |
| Completed all required mathematical work correctly. | 0 | 2 | 3 | 5 |
| Your mathematical work supports your Aim. | 0 | 1 | 2 | 3 |
| Brought in two hard copies for peer editing. | 0: NO | 2: Yes |
| Turn in a stapled hard copy of your Write Up at the beginning of class on October 12. | After 10/13  -5 | On 10/13  -3 | After class 10/12  1 | In class 10/12  2 |

|  |  |
| --- | --- |
| **Exploration Outline Worksheet** | Total \_\_\_\_\_/10 Test Points |
| **TYPE responses to the prompts below. Maximum three pages (including everything above this line).** | |
| **Aim & Rationale**: (Think of this as your introductory paragraph. Include what you are going to do and why.) [2] | |
| For each criterion, **answer at least two of the questions**. Every IA is different, so some questions may not be appropriate to your work. Write just enough to **convince me that you understand the expectations** and have a reasonable plan to address them. See the Rubric on my website for criteria details. | |
| **A: Communication** [2]  1. How will you organize the presentation of your ideas?  2. What visuals will you use?  3. What will you include in your conclusion? | |
| **B: Mathematical Presentation** [2]  1. Define key terms (terms that are not common knowledge but are helpful in reading your work).  2. What degree of accuracy will be appropriate?  3. What forms of mathematical representation will be appropriate? (Formulae, diagrams, tables, charts, etc.). Be specific. | |
| **C: Personal Engagement** [2]  1. Why this topic is meaningful to you?  2. List any “what if” questions that helped you develop your work.  3. How will you make your paper unique through independent thought and/or creative use of mathematics? | |
| **D: Reflection** [2]  1. How will you know and demonstrate whether your mathematics and conclusion are reasonable?  2. How will you know and demonstrate whether you have accomplished your aim?  3. How will you evaluate your exploration in light of your aim and rationale?  4. What are the limitations and/or possible extensions of your work?  5. In what other ways should you evaluate/analyze/consider the merit of your exploration? | |