**Pre-Calculus 12**

**Term Projects**

**Term 1 - accumulate 10 points from the list on the following page**

**- due Thursday, November 21 by 3:15 p.m.**

**Term 2 - accumulate 10 points from the list on the following page**

**- due Friday, February 28 by 3:15 p.m.**

**Term 3 - do the project below**

 **- due Friday, June 13 by 3:15 p.m.**

Your assignment for Term 3 is to do something – anything! – as long as it is something that you are proud of. It can be anything you want (it doesn’t have to relate to mathematics in any way, although it might). Maybe you are going to make something (a painting? A movie? An article of clothing?). Maybe you are going to write something (a story? A song? A report on your family history?). Take photos. Choreograph a dance. Run a half-marathon. Act in a community play. Host a fund-raiser. Start a business.

Do something amazing!

You can do it by yourself or with a partner or with a group. I don’t care if the whole class works together, as long as every person is proud of what is produced. You can work with your parents, your siblings, your non-KG friends, KG friends who are younger than you… anything goes. As long as you are proud of what you produce.

Here are the criteria:

1. produce something that you are proud of
2. it must be something that you produce exclusively for my class (it can not be something that is produced for another class / team / group / club)
3. it must include something tangible that I can keep and remember you by (this might be something written or a video / photo of a performance)

*Hint: we are often most proud of things that require our very best effort to produce*

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| **Task** | **Points** | **Additional Details** |
| Book report – read an “adult” non-fiction math book (no textbooks!) | 10 - 20 | \* see separate rubric \* |
| Oral presentation on Math topic | 10 | \* see separate rubric \* |
| Teach an entire math class to grade 8’s | 8 | You must create all the handouts, Powerpoints, etc. |
| Math-fair type project | 7 | \* see separate rubric \* |
| Make a math video | 7 | Between 5 and 15 minutes. Should be well-edited and in good taste. (5 bonus marks for 1000 views) |
| Write an opinion piece about high school math and high school math education | 6 | Do some background research and then give your own opinion. Back up your ideas! |
| Do at least 5 hours of math tutoring | 5 | Must be done at school in the library or in my room. |
| Keep a journal about math class for an entire term | 5 | Include your thoughts / emotions / disappointments / victories in PC12 |
| Interview – an adult who loves math and someone else who hates math | 5 | Only one person can be an immediate family member |
| Interview a professional mathematician / university mathematics professor | 5 | Why did they pursue Math? What do they study? Etc.  |
| Book report – read 3 “children’s” math books (not textbooks!) | 4 | \* see separate rubric \* |
| Get me a signed picture of a (very) famous person. They must include a positive comment about mathematics | 4 | Movie stars. Sport stars. Politicians. Models. Rock stars.(4 bonus marks for Morrissey) |
| Sit in on math lecture at university | 4 | Write me a 1 – 2 page description of your experience. |
| Create a display that shows grade 8’s how to be successful in math | 3 | Cartoon, poster, poem, picture, etc. |
| Movie critique – watch a movie about math | 3 | \* see separate rubric \* |
| Find 3 “current events” math stories (can’t all be on same story). Write a summary in your own words | 3 | Make sure to include the date and source (which paper, magazine, etc) they were found in |
| Make a math cartoon | 3 | Minimum of 5 panels. Must be coloured. |
| Write a math contest  | 2 | You can do this in more than one term |

**Note: - the only task you can do twice is the math contest**

 **- the book can count for more than one term (but check with me first)**

 **- you can do up to 2 points extra for Bonus each term**