

Foundations Math 12 –Term Project

Name: _____

[C] Communication	[PS] Problem Solving
[CN] Connections	[R] Reasoning
[ME] Mental Mathematics and Estimation	[T] Technology
	[V] Visualization

Mathematics Research Project	General Outcome: Develop an appreciation of the role of mathematics in society.
Specific Outcomes <i>It is expected that students will:</i>	Achievement Indicators <i>The following set of indicators may be used to determine whether students have met the corresponding specific outcome.</i>
E1. Research and give a presentation on a current event or an area of interest that involves mathematics. [C, CN, ME, PS, R, T, V]	<ul style="list-style-type: none">1.1 Collect primary or secondary data (statistical or informational) related to the topic.1.2 Assess the accuracy, reliability and relevance of the primary or secondary data collected by:<ul style="list-style-type: none">• identifying examples of bias and points of view• identifying and describing the data collection methods• determining if the data is relevant• determining if the data is consistent with information obtained from other sources on the same topic.1.3 Interpret data, using statistical methods if applicable.1.4 Identify controversial issues, if any, and present multiple sides of the issues with supporting data.1.5 Organize and present the research project, with or without technology.

Mrs. Della's expectations:

- Each student must do their own project
- Choose two different careers you are interested in and research them in terms of 5 different aspects, such as: probability of finding work, percentage of population going into these careers, cost and length of time to attain the education required, income earned, job satisfaction, job stress, etc...
- In your project ensure that you utilize several topics (at least 3) that you learned in the course: finance, Venn diagrams, logic, probability/odds, combinations/ permutation, types of curves – exponential, log, sine, cubic...
- Clearly state what you are researching (your 2 careers)
- Make a hypothesis or hypotheses about what you will find (which career is better and why, and/or ... ?)
- Collect data – either from internet research and/or questionnaires given to fellow students and/or people in those fields
- Assess data – as indicated in 1.2 above (remember stats from Grade 11?)
- Relate data to your project
- Controversial issues are identified and explored
- Conclusions are made
- Some kind of a hard copy or computer file is handed in to Mrs. Della
- Presentation to class (~5 minutes)
- See rubric for more details too