Grade 11 Parabolic Art Assessment Criteria

The project accounts for 15% of the course.

The objective is to experience an intersection of math/art/coding/filemmaking, and to program your own Bezier curve using GeoGebra.

We will try to capture this learning through a journal style portfolio as you progress through a set of tasks created on your chosen media - google doc, google slides, or poster.

A total of 100 marks will be awarded for this project as follows:

Short Description	Maximum marks possible	Long Description
A good job	40	A reasonable effort has been made to include all aspects of the project. All components are submitted. (provided the work is authentic, that is, has been created by the student.)
Structure and flow	5	Your submission (doc/slides/poster) is well organised. It is clear what each part/page of the submission is and what it is there for. Each page should have a title, and at least one sentence explaining the contents of the page.
Table of contents, conclusion	5	The table of contents reflects the project correctly (there are page numbers); the conclusion makes at least three interesting observations.

The remaining marks are given by task:

Paper and Pencil string art (page 2)	5	Well presented and described.
Midpoint Calculation and ggb curve (page 3)	10	Well presented, mathematics clearly demonstrated and explained.
Design Challenge (page 4)	10	A clear description and/or thoughtful (relevant) observation beside each of your screenshots taken from the Khan academy lesson.
Parabolic arc image (page 5)	10	A diagram with a substantial number and variety of parabolic arcs. Thoughtful observations (at least two) on the process.
Programmed Bezier Curve (page 6)	15	Clearly explained process of how to program a point to travel from any point A to any point B. Clearly explained process of how to use this program to create a Bezier curve.