

Henry Street High School

TDJ 3M1

Technological Design, Grade 11, University/College Preparation

COURSE OUTLINE

COURSE DESCRIPTION *This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.*

UNITS OF STUDY

- UNIT 1** – Introduction to Design Principles and Process
- UNIT 2** – Working Drawing and Animation Techniques
- UNIT 3** – Inventor 3D design - Lego Project (Group)
- UNIT 4** – Inventor 3D design – USB Case Design (Individual)
- UNIT 5** – Inventor 3D design – Mechanisms (Pair/Individual)
- UNIT 6** – Architectural Desktop – 2 Storey House Project (Individual)
- UNIT 7** – Inventor 3D design – Model an object of students choosing.
- UNIT 8** – Presentation of Years Work.
- UNIT 9** – Final Examination Review and Final Examination.

ASSESSMENT AND EVALUATION Assessment and Evaluation for TDJ3M1 is structured as follows.

❖ Lego Project	(14%)
❖ USB Case Design	(14%)
❖ Mechanism Project	(14%)
❖ Architectural Design Project	(14%)
❖ Model of a chosen Object	(14%)
❖ Presentation of year's work	(20%)
❖ Final Exam	(10%)
TOTAL	(100%)

OTHER INFORMATION It is recommended that all students back up their computer work daily on a USB flash memory drive that is at least 8GB in size.