

## **Metalwork 25G**

Industrial Arts/Technology Education

Stonewall Collegiate

Mr. M. Schoofs

[mschoofs@isd21.mb.ca](mailto:mschoofs@isd21.mb.ca)

### **Program Introduction:**

The objective of Metalworking 25G is to continue to provide it's students with a broad introduction to the processes and procedures utilized in the manufacture of metalwork products. Study will focus on types of materials and the processes used to cut, form, shape and fasten these materials together in the metalworking field. Students will attempt a variety of assigned projects demonstrating a wide array of metalworking skills.

### **Emphasis will be placed on:**

- Safe practices using tools/machines and materials
- Development of hand tool skills, measurement and layout, machine use and finishing techniques
- Problem solving and decision making skills
- Working with sheet metal
- Machining and the Metal Lathe
- Oxyacetylene Welding
- S.M.A.W. and M.I.G. Welding
- Separating, Forming and Fastening Metal
- The Nature and Source of Metals

### **Methodology:**

Emphasis on the hands on approach through the use of several selected projects. These assignments will be supported by demonstration, lecture, printed materials, video and written assignments.

### **Expectations:**

Each student will require a notebook/binder to be brought to each class.

*\*\*\*Appropriate footwear and clothing are required to work in the lab.*

### **Assessment:**

Category weights.....70% practical work.....30% assignments and quizzes.