



Sean Connors

Room 313

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MYP Design aims to provide the means and the context to help students become skillful problem solvers, who can appreciate the role of Design in everyday life and society and who can respond critically and resourcefully to real-life challenges.

The MYP Design course intends to:

- Challenge all students to apply practical and creative-thinking skills to solve problems utilizing different forms of Design.
- Encourage students to explore the role of Design in both historical and contemporary contexts.
- Raise students' awareness of their responsibilities as world citizens when making decisions and taking action on Design issues.

Students will be expected to investigate various types of problems and use the Design Cycle as a tool to design, plan, create and evaluate products/solutions. A product/solution can be defined as a model, prototype, product or system that students have generated independently.

## **2014 – 2015 Scope and Sequence: August-December**

You will be sent a January-May Scope and Sequence in January.

All Unit Dates are *projected* and may be subject to change.

### **Unit 1: Mission to Mars**

Sept-Early October

**Key concept:** Systems

**Related concepts:** Function, Invention

**Global context:** Scientific and Technical Innovation

**Statement of inquiry:** A product that appears to complex often requires an underlying system composed of simple components that function effectively together.

#### **Inquiry questions:**

Factual: What do simple machines do? What is mechanical advantage?

Conceptual: How does the wheel and axle relate to the lever and fulcrum?

Debatable: Should a wheel always be round?

#### **Content**

- Know: wheel and axle, levers, pulleys, wedge, inclined plane and screw
- Understand: How simple machines work to increase speed, change the direction of a force and reduce needed effort
- Do: Construct a complex machine that successfully uses mechanical advantage

#### **Summative Assessment Task(s)**

- Mars Rover Prototype and Design Portfolio (Criteria A, B, C, D)

### **Unit 2: Bloggers of the World Unite**

Mid October-December

**Key concept:** Communication

**Related concepts:** Collaboration, Innovation

**Global context:** Personal and Cultural Expression

**Statement of inquiry:** Advances in digital communication technology allow individuals and groups to communicate and collaborate beyond their geographical boundaries.

**Inquiry questions:**

Factual: What is a blog?

Conceptual: How do communities use digital technology to communicate and share ideas?

Debatable: Is it good for something to go “viral?”

**Content**

- Know: Blog, Post, Link, Embed and Cite
- Understand: Blogs allow for people to share ideas and information across space and time
- Do: Creating and maintaining a educational blog, commenting on others blog posts

**Summative Assessment Task(s)**

- Personal Blog and Design Portfolio (Criteria A, B, C, D)

**Design Grading Criteria**

	<b>Achievement Levels</b>
A. Inquiring and Analyzing	<b>0-8</b>
B. Developing Ideas	<b>0-8</b>
C. Creating the Solution	<b>0-8</b>
D. Evaluating	<b>0-8</b>

Please refer to the MYP Parent Assessment Handbook for more information on MYP grading. You are also welcome to contact me, Vicki McNeill (HS Principal), Damian Rentoule (MS Principal), or Diane Smith (MYP Coordinator) with any questions about the MYP grading philosophy and practices.

**Office hours in room 313 from 7:30 to 8:00 a.m. M-F:**

Students are encouraged to use study hall or lunch recess to receive extra learning support. In addition, afterschool meetings can be arranged dependent upon scheduled faculty meetings.

Class website URL: <http://ljadtmyp1.blogspot.com>