TECHNOLOGY ED 10: General / Lesson Plan Date: October 21st 2015

Grade Level: 10 Block: C Prepared By: MR. Doyle Lesson #: 1of6

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| Title of lesson: | **Rocketry and Your World** |
| Materials Needed:   * Paper * Pencils * Other | Other Resources:   * Web. * Books |
| Rational: | * What is Motion and how to we create and control it? * How is the science of rockets the science of your everyday world? |
| Learning Outcomes: | * Students will design and build rocket compartment able to withstand the forces acting on the compartment during takeoff and landing. * Student will describe the fundamentals of force, motion and impulse that affect their rocket design. * Students will evaluate the data collected during the fight of their rockets |
| Information: | Lectures, demonstrations, and video |
| Verification: | • How high your rocket goes.  • The effectiveness of guidance and recovery systems of your rocket.  • Overall creativity, aesthetic and thoughtful design of the final product. |
| Activity: | Working in teams, students will design and build rockets powered by water and pressurized air.  Using what students learn about the fundamentals of force and motion, Student will design and build a fully functional rocket including:  payload compartment, propulsion system, recovery system and guidance system. |
| Summary: |  |

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