## DESIGN AND MODELING - MR. MAYBERGER
- Parametric Modeling (CAD) Inventor
- SAME (Society of Military Engineering) Competition
- Demonstrate the ability to produce various annotated working drawings of a 3D model
- Design Process to problem solve
- Making of prototypes

## AUTOMATION AND ROBOTICS - MR. MAYBERGER
- Hands on learning
- Fischertechniks model making
- Programmable models
- Design, build, wire, and program both open and closed loop systems.
- Arduinos

## SCIENCE OF TECHNOLOGY/ VEX ROBOTICS - MR. JELKEN
- Learn about different energy sources
- Learn and use the design process
- Build a Rube Goldberg using the 6 simple machines
- Build a dragster and maglev vehicle
- Learn how aerospace vehicles fly

## MEDICAL DETECTIVES - MR. HUBER
- Focuses on solving problems/crimes dealing with the human body
- Dissect a sheep brain
- Look at DNA, body senses, fingerprints, and solve crimes based on time of death
- Field trips to the Douglas County CSI department
- Awarded a grant to buy software to use 3D technology to solve crimes including bullet trajectory and blood splattering

## GREEN ARCHITECTURE - MR. MAYBERGER
- Mastercraft Building
- Model Making
- Floor Planning
- Lighting Field Trip to the Peter Kiewit Institute
- Use Autodesk Revit Architecture to create an architectural drawing.