Goals for 6th Grade TED:
This is an elective course that focuses on introducing students to our 2 main focuses in TED. The first focus area is the 5 categories of technology which are transportation, communication, manufacturing, power and energy, and construction. The second area is the use of the design cycle in projects. We use the design cycle approach in all projects and that consists of Investigate, Design, Plan, Create and Evaluate. Each project introduces different parts of each of these 2 focuses in a way to expose and introduce what they will experience in 7th and 8th Grade. The projects students will complete are Orthographic Drawing, Paper Structures, Rockets, Snap Circuitry, 3D Design, Laser Engraving, and Landscape Design.

Goals for 7th Grade TED:
This is an elective course that builds off of what students are introduced to in 6th grade. They are not required to have taken it in 6th grade, but it would help. Students work through the Design Cycle to complete hands on problem based, and project based projects. The projects students will work through in their semester in TED are Orthographic Drawing, Pop Bottle Rockets, Egg Drop Contraption, Bridge Design, Propellers, 3D Design/3D Printing, and Laser Engraving Dog Tag Design.

Goals for 8th Grade TED:
This is an elective course that builds off of what students are introduced to in 7th grade. They are not required to have taken it in 7th grade, but it would help. Students work through the Design Cycle to complete hands on problem based, and project based projects. The projects students will work through in their semester in TED have a heavy transportation focus in 8th grade and consist of Orthographic Drawing, Mouse Trap Cars, CO2 Cars, MagLev Racers, 3D Design in product development for 3D Printing a prototype, and Water Bottle Laser Engraving Design.

Project Break Down (through the design cycle):
Day 1: Teacher introduction of unit
Days 2-4: Student investigating
Days 5-6: Student planning/designing (Sketches/Drafts/Orthographic Design)
Days 7-12: Student creating (Production Lab)
Days 13-15: Student evaluating (Reflection/Evaluation/Testing)

*Dates are subject to change based on the project requirements and school calendar. Projects are adjusted and adapted based on student needs.

Mr. Christensen will supply:
- Materials
- Structure (Due dates, research topics, time to work, grades)
- Mini-Lessons/Demonstrations on background information and design/building skills

You are responsible for:
- Having a good attitude and taking an active role in your education EVERY DAY
- Being respectful EVERY DAY
- Bringing a pencil to class EVERY DAY
- Being on time to class EVERY DAY
- Maintaining and organizing the evidence of each project in your Design Portfolio
- Completing work on time
- Treating the resources of the TED Lab with respect
- Maintaining a positive design culture
- Creating products you care about and are proud of

Student Name: (Print First and Last)

Student Signature________________________________________________

*Student signature confirms understanding and demonstrates an agreement on the terms/expectations listed above between the student and Mr. Christensen.