**Name:**_____     **Per.**_____     **Seat #** _____

**Teacher:** Mr. Lopatic                                                     Rooms 110, 109

## 7th & 8th  Grade Course Syllabus
## Technology Education; *Learning by Design*

**Exploring Technology** is a 45 day **activity-based** course that introduces students to technology by examining the basic system of measurement, measurement math, woodworking, problem solving, robotics, tech-sketching and notebook management.  Students will take measurement to a new level, be introduced to the safe use of woodworking machinery and basic, yet more creative, woodworking techniques, simple and complex machines, robotics and finally, an introduction to hand- generated technical sketching type applications.

### Objectives:

1) Be open minded "Problem Solvers"
2) Work productively in individual and group situations
3) Respect one another and our Classroom/Shop facilities
4) Be able to use, understand, and manage the technology at hand
5) Read and be able to interpret the ruler, as well as divide lines in half
6) Come prepared to Work in a safe manner (notebook, pencil and brain "turned on")

### GRADES - Total Points System

Flight----------------------------___/20 points   Due Date: _____
Measurement--------------------___/25 points   Due Date: _____
Wood Project------------------- ___/100 points   Due Date: _____
Robot Arm ----------------------___/50 points   Due Date: _____
Technical Sketches-------------___/50 points   Due Date: _____

A **project not turned** in by the Due Date will be marked **"Missing"** on PowerSchools. It will be turned into a **0% at the end of the grading term**. After that time, **it is up to you to complete** the project **and return** it to the teacher **so that your grade can be updated** on PowerSchools.

**Homework**: The only "Homework" we have is **research and preparation** that is critical to you starting a project. Glider Plans and DIY Robot Arm Possibilities play a key role in your success. Robot Arm preparation, sketch and supply acquisition is worth 5 of the 50 points on that project.
(See My Website for Glider Plans and Videos as well as Robot Arm Research, Robot Arm examples, Power Points, Etc.)

Students will be required to keep **notebooks**.  Students are required to keep their notebook, with all their assignments, until they receive their grades on their report cards.  **No duplicate copies of hand-outs will be made available**.   Misplaced handouts can be found on my LDSD.org Website, printed by you, and put back in your folder. (keep notebook safely in assigned classroom locker)

50% of your Tech-Ed grade will come from Mr. Lopatic's class and 50% will be earned from Mr. Fox's Class.

1/19/16    Student Signature: _____ Parent Signature: _____