

# West Jay Technology Class

Instructor Mr. Love

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Room 107

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"In partnership with our families and the community, the mission of the Jay School Corporation is to provide a quality educational program, which causes each student to think, reason, and communicate and to make positive contributions to our community."

## ***Description:***

This class will be introducing students to automation and robotics technology. This class also focuses on having student work as a team to achieve a common goal. We will use projects to learn about things like gear ratios, general metal construction, programming, mechanical design, and some basic science principals. We will be using VEX robotics and Lego Mindstorms to complete the projects.

## ***Projects:***

Different grades will be working on different projects. All grades will cover some similar topics, however. The sixth grade focuses on a simple introduction to robotics and how mechanisms work. Seventh grade will focus on the design process and how things get created. Eighth grade will focus on programming and using sensors to make the robots run by themselves.

*6<sup>th</sup> grade projects:* Introduction to robotics, Lego activity sheet, custom Lego robot, Lego programming and Lego challenge.

*7<sup>th</sup> grade projects:* Introduction to robotics, gear ratios, squarebot build, intro to programming, dragster robot and 7<sup>th</sup> grade challenge (Design)

*8<sup>th</sup> grade projects:* Introduction to robotics, gear ratios, squarebot build, advanced programming, tractor pull robot and 8<sup>th</sup> grade challenge (Advanced design)

## ***Goals:***

Students will be able to work productively as a group to achieve a goal.

Students will understand the basic concepts of robotics technology and automation.

## ***Rules:***

### General Rules

Talking is by permission only

No food/drink/gum

Bring pencils, paper and suggested materials

No horseplay is allowed

Stay on task

Treat others how you want to be treated

Please keep cell phones put away and off

### Class Entry/Dismissal Procedures

Be in your assigned seat on time

Have needed materials

I will take attendance

Daily work time

Clean up

Return to your seats

I will dismiss the class

**Evaluation:**

During the nine weeks, there will be three vocabulary lists that we will cover. The vocabulary lists will have words on it that we use in class every day. During the nine weeks, we will also have one "pop quiz", and two other planned quizzes over material from class. These are meant to be quizzes that make sure students are paying attention and understand the basic concepts of this class. I never make a quiz intentionally to make students fail; I want to see all of them succeed. At the end of the nine weeks there will be a test over the entire nine weeks; this test will cover everything that was discussed in the nine weeks. We will have a review session the class period before the test.

*Grading Scale:*

Letter Grade	Percentage
A	90.0-100.0
B	80.0-89.9
C	70.0-79.9
D	60.0-69.9
F	Below 59.9

Grades are earned, not given. I grade each student fairly and accurately. If there is ever a mistake on grading, please bring it to me and I will review the answer.

*Weekly participation:* I give a grade for weekly participation. The grade will begin on a Monday and end on a Friday. This grade is a grade that can go down during the week depending on the student's behavior/attitude in class. As long as students make the effort to work with their group, they will not lose points.

If you ever have any questions for me, feel free to call or email me at [klove@jayschools.k12.in.us](mailto:klove@jayschools.k12.in.us) I want to help every student succeed in this course. There is also a course website, it is <http://www.wjmstech.weebly.com> . You can find vocabulary lists and other course materials on this website. I update it often, so check back to see if there is new information on it.

Robotics Club: I am the teacher for the middle school robotics teams. If you would like to be involved in the robotics club please let me know and I will add you to the list for the call out that will take place in September.

Please sign and return this sheet to receive your first course grade.

Thank you and I hope we have a great nine weeks!

-Mr. Love

\_\_\_\_\_  
Student Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent Signature