

# Caraway Robotics

## WHO WE ARE:

The Robotics Club was created 8 years ago as a grass roots effort by parents to provide our children with the team building, programming, and building skills using Lego Robotics. We have kept it an all-volunteer effort through the PTA. We ask each parent to volunteer to help in at least 1 or 2 classes during the 8 week course. A sign up genius site will be created closer to when the class begins for you to be able to sign up. If you are able to attend more often, we always welcome volunteers. It's an amazing experience and something fun to do with your child and watch them develop their creativity. ***It is important for parents to attend because part of the joy the kids get out of the class is being able to share with their parents their creation.***

Payment of \$60 is made to Caraway PTA at your first class – in the memo of your check please mark name of your child and Fall class program. The \$60 goes solely to purchasing supplies and replacement parts for the Robotics kits. This allows us to introduce new programs to the kids.

## Program brought to you by Caraway PTA

We are self-funded. All equipment purchases go back to the PTA organization for use in our programs.



## OUR PROGRAM:

## 2<sup>nd</sup> & 3<sup>rd</sup> Grade \* - LEGO WeDo - Wed from 5:00-6:00pm

Wedo/Simple Machines – we structure the class depending on grade/skill level of the kids. Those with no knowledge will begin with Wedo 1.0 kit (actual elementary level kit), then will move to learn about simple machines and programming. Next is the WeDo 2.0 kit with more challenging builds. We often do projects with the Simple Machine kits with remote control projects using IR controllers.

*\*Kindergarten and First grade students are allowed as long as accompanied by a parent at every one of the 8 sessions*

## 4<sup>th</sup> & 5<sup>th</sup> Grade – LEGO EV3 – Wed from 4:00-5:00pm

EV3 – the kids tackle larger builds and more complex programs. We teach the use of sensors and how to program the robot to do multi-step processes. The kids will learn how gears work and how to build a strong robot. 5<sup>th</sup> grade has four different contests that the kids love to complete in. We are pleased to announce National Instruments is partnering with Caraway Robotics again this year sending us 4 volunteers that help us create the curriculum for the class and will be helping to teach the students the programming of EV3.

## Contact Information

PTA Chair:

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Class Contacts:

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Kate Steinke [Ksteinke@gmail.com](mailto:Ksteinke@gmail.com)

Faculty:

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**\*\*\*Classes start September 26, 2018\*\*\***

**\*\*\*Look for the sign-up link in next week's e-blast!\*\*\***