

# Robotics

## Level VI

**Advisor:** James Schneider

**Membership Criteria:** Students in grades 4 - 9 who have an interest in learning more about programming and building robots. Students must also join 4-H to participate as they help sponsor the teams. Teams are limited to 10 kids but must have at least two to participate. Ideally, the teams would have around 5 - 6 members. This year we plan to have 1 to 3 teams.

**Goals:** The goals of the robotics program is to foster learning about robotics and programing and how to apply that to real-life problems. The program also gives an opportunity for students to show that knowledge in a competition.

**Budget:** We hope to offset some of the costs for the program by looking for money from some outside sources. In the past, we have received donations from the Northome Northern Lights 4H club, Northome VFW, People in Business Care, and the Upper Red Lake Association.

The cost of the program will be covered be the local 4H Club, Northern Lights 4H.

The cost of the coaches will come from Northome School. Also, we ask the school to supply a sub for a day of the regional tournament in Bemidji and provide transportation for the regional tournament.

If the team(s) do well, the will advance to the section tournament and possible further to the state tournament. Both of these tournaments would require one night at a hotel for the coaches and students at the section/state tournament.

The participants typically have sold flower bulbs to help raise money for the program in the spring. They were also asked to work the youth food booth at the Koochiching County Fair.

See costs listed at end of proposal.

**Planned Activities:** Robotics will meet for several study sessions for practice in preparation for the competition. Practice time will be split between building/programming the robot and doing a research project. We predict about 45 practices weather permitting.

**Practices:** Practices will be held after school two days a week trying to accommodate all the students' schedules.

**Student Participation:** We have yet to sign up participants at this point. We plan to have up to three teams. This may change depending on who is involved.

**Time:** The time required for me as an advisor outside of the school day is as follows.

90 hours	-- Practices
1 hours	-- Introductory meeting
4 hours	-- Coaching Meetings
14 hours	-- Regional Competition
(2 Days	-- Section Competition)
109 hours	Total (159 hours if we compete at Sections)

## Robotics expenses for one team:

Registration and Kit for one team	\$520.00 (partially covered by 4H)
Team shirts	\$ 30.00 - 80.00
snacks	\$ 270.00 (about 6.00 a practice)
Regional Tournament	\$? Transportation to event site if we do

**If able to go to sections / state:** (double if a second team makes it to sections, or triple if a third team makes it to sections)(state would be the next level and costs would be the same as sending a team to the section tournament)

Registration for a team	\$ 200.00 (school pay for)
up to 4 motel rooms for two nights	\$ 600 a night (school pay for)
Day for a sub	\$ 110.00 (school pay for)
mileage ..... $267 \times 4 = 1068$ miles	\$ ??? (school pay for)

# Robotics

## Level VI

**Advisor:** Marti Waller

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**Advisor:** 3rd coach if necessary

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