

# Nebraska One-Year Opportunity Grant

## END OF GRANT SUMMARY

### PROJECT NAME

**STEM Club**

### GRANTEE

Garden County Schools

### OVERVIEW

This ELO project focused on the development of a STEM Club for students in grades K-2 and 3-5. Both age groups learned how to use technology for the purpose of photography and editing, as well as recording videos about themselves and their rockets, including the launch. Students built Estes rockets with variable designs in fin structure, self-selected their engines, and launched outside. The robot unit encompassed Dot and Dash robots in which primary students “trained” their robots using predesigned programs and iPads in groups of three. At the end of the unit, many students were actually programming their robots’ movement using simple coding programs. The older students built E-Z robots, then coded sophisticated robot movements to perform various challenges in an obstacle course setting. They shared their robots with parents, at the local senior centers, and care facility.

### SITES

Garden County Elementary serves K-5 students at an after school setting throughout the year and in a six week summer session. This ELO project served K-2 students and 3-5 students simultaneously with supplemental hands-on STEM Club activities.

### PARTNERS

UNL Extension  
Volunteers of American Western NE nonprofit  
Garden County Schools and Ministerial Association  
TeamMates mentors  
Turner Board

### FOCUS AREAS

Project focus areas were science standards including flight, gravity, design, safety, and cause/effect objectives; Technology integration with laptops, iPads, photography, and videos; Engineering concepts through rocket assembly and launching, Math concepts of measuring, weighing, and elapsed time.

### AMOUNT AWARDED

**\$17,424**

### PARTICIPANTS



**59** (Grades K-5)



**REGULAR ATTENDERS**

### FREE & REDUCED LUNCH



### SPED

