



STEMworks – STEM Advisory Council’s Approved STEM Program January 2020

Green Our Planet’s STEM School Garden and Hydroponics Program

PROGRAM OVERVIEW

Green Our Planet is a 501(c)3 nonprofit education organization that runs the largest and most comprehensive STEM school garden and hydroponics programs in the United States. Green Our Planet uses school gardens and hydroponics as hands-on learning tools to increase student understanding of STEM subjects. Both of Green Our Planet’s programs come complete with everything the school needs to implement the programs: a school garden build or hydroponics system, curriculum, instructional manual and coordinator and horticulturist support. Green Our Planet’s programs are built upon K-5 STEM curricula, which are aligned to Next Generation Science Standards and Nevada Science Content Standards, written specifically for Nevada’s desert environment and include lessons on nutrition, financial literacy and conservation. The experiential curricula empowers educators to help students connect STEM concepts to real-life applications through school gardens and indoor hydroponics.

TARGET GRADES

Pre-K-5

A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

Green Our Planet uses school gardens and hydroponics as unique learning laboratories to grow food, allowing students to gain hands-on experience with science, technology, engineering and math.

THE PROGRAM’S IMPACT ON STUDENTS

Since 2013, Green Our Planet has improved STEM education for over 130,000 students through implementing more than 220 school gardens and school hydroponics programs across the state.

SPECIFIC SKILLS STUDENTS WILL LEARN

Through Green Our Planet’s programs, students learn how to successfully maintain an outdoor or hydroponic garden. Students develop skills such as systems thinking, using the scientific method to plan and carry out investigations, analyzing and interpreting data, identifying patterns, and a basic understanding of biology, chemistry, technology, engineering and math. Additionally, students use their STEM knowledge to run the garden as a business, learning real-life entrepreneurship skills.

RESOURCES PROVIDED TO EDUCATORS

- *School garden for Pre-K-5 and/or hydroponics systems for K-5*
- *Green Our Planet’s School Garden Manual and/or DIY Hydroponics Manual*
- *Green Our Planet’s standards-aligned Pre-K-5 STEM Garden Curriculum and/or K-5 STEM Hydroponics Curriculum*
- *Library of videos covering subjects such as teaching in the garden, planting, organizing chef demos and setting up small hydroponics units*
- *Support from experienced horticulturalists and coordinators*

WEBSITE

www.greenourplanet.org

CONTACT INFORMATION

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