

Oak Grove Elementary School

Mrs. Penny Valle
Principal

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Partnership Needs and Wish List

The mission at Oak Grove Elementary School Fine Arts Academy is to meet the needs of each unique individual by: Encouraging Life-long, enthusiastic learners; Providing a safe, positive and nurturing learning environment where students, teachers, and staff, parents, and community work together; and Implementing a school-wide Science, Technology, Engineering, Arts, and Math (STEAM) learning program that integrates across the curriculum to engage and enrich the lives of students by providing collaborative opportunities that promote creativity, critical thinking, and communications.

Oak Grove ES utilizes Problem-based Learning to strive for Zero Hunger with a focus on Agriculture. As a Title I designated school with two thirds of our students qualifying for Free or Reduced Lunch, many of our students are hungry. To combat hunger at the school, community, and global level, each grade level has selected a problem that aligns with their specific Georgia Standards of Excellence in Science. We need an advocate partner at each grade level to contribute to our investigative research, share ideas and expertise, provide financial support, and assist with action steps. Some areas of need include:

- Recycling
- Composting
- Gardening
- Establish a Milkweed and Lavender Garden
- Restore our outdoor classroom
- Landscaping to prevent erosion
- Reduce pollutants
- Conserving ecosystems
- Protecting natural habitats

Please see our PBL Plan on the back for specific grade-level projects.

Thank you,

Penny Valle



Cherokee County
School District

Dr. Brian V. Hightower
Superintendent of Schools



Oak Grove PBL

Agriculture: Project Zero Hunger



Grade	Problem	Local/Global Goal	Primary Unit & Foundational Standards	Project/Product Focus	Investigative Research Ideas
K	Our community has hungry people and does not eat fresh food. How can we produce fresh food for our community?	Access to safe & nutritious food; sustainability	Living/Non-Living SKL1 a,b SKL2 a	Design a simple sustainable outdoor garden	Plant growth Root growth Weather and sun position on plant growth Weather patterns Living/non living seasons
1	Our community has a lack of green space. How can we produce fresh food without using green space?	Access to safe & nutritious food; sustainability	Plants & Animals S1L1 a,b,c	Container Gardens (Indoor & Outdoor)	Plant growth Sun position on plant growth Tracking needs of plants (sun vs no sun) Count seeds produced
2	Pollinators are dying out. How can we grow a habitat that will promote pollinators at our school?	Conserving terrestrial ecosystems; protecting natural habitats	Change in Plants & Animals S2L1 a,b,c,d	Habitat for Pollinators, Milkweed & Lavender Garden & Monarch Butterflies	Milkweed & lavender height Count butterflies Butterfly chrysalis observations Butterfly behaviors Life cycle Classification
3	Oak Grove has too much waste. How can we reduce waste at Oak Grove?	Reducing food waste; reduce illness from pollution	Pollution & Conservation S3L2 a,b	Composting; Recycle (paper, plastic, Styrofoam)	Track food and paper waste Tracking balance of compost 'needs'
4	Pesticides and fertilizers in our food are harmful. How can we sustain an aquaponics system at Oak Grove?	Conserving terrestrial ecosystems; access to safe & nutritious food	Role of Organisms in Ecosystems S4L1 a,b,c,d	Aquaponics 1 large one for school-wide view Smaller aquaponics inside classrooms	Water levels Fish behavior observations Ammonia/Nitrate levels Tank temperature PH levels Plant height Growth on water ecosystem vs soil ecosystem
5	Erosion is a problem on our school property. How can we reduce the erosion problem at Oak Grove?	Access to safe and inclusive green and public spaces	Earth & Changes over Time S5E1. a,b,c	Garden & Playground	Track erosion after using a variety of intervention methods Mass of soil runoff Volume of water runoff