

“We are 21st Century Learners!”

Center for Innovation at Glendale Elementary School

About the Project:

Envisioning the 21st Century Media Center: Today’s media center remains the hub where new technologies can be combined with traditional information sources to support learning. In order for the media center to continue to play a pivotal role in learning experiences, it needs to evolve to meet the changing pedagogies and learning models, and the ever-changing needs for students and teachers. Where the classroom is the heart of education, the media center is its soul!

Glendale Elementary School wants to continue to nurture collaboration, hands-on learning, and reading comprehension by transforming our Media Center into a 21st Century Library; now called the Center for Innovation. We have built a space for collaboration and instruction that will include a STEM & Digital Literacy component. After reconfiguring the space in the library - providing flexible seating, a research center, a Maker Space, a Construction site, and enhancing the reading areas - we are looking to provide rigorous learning opportunities that will meet the needs of the 21st Century, thus helping our students develop problem solving and high-level thinking practices. The materials we are requesting are specifically designed to reach all learners Kindergarten through 5 grade.

Kindergarten and first grade students will use the KinderLab Robotics program. This program is designed to engage young children in learning the concepts and skills of computer programming and engineering by integrating them with all curricular areas and with opportunities for socio emotional growth. The Ozobot, Dash and Dot, used along with the iPads, can provide coding experiences also reinforcing scientific investigations and engineering practices.

To add more to our Innovating opportunities, we would also like to use Keva Planks in our Maker Space. Research shows children who play with blocks tend to do better in mathematics and science. Physically handling the blocks builds a fundamental understanding of quantities, equality, and geometry.

To further enhance our STEM resources for students, we would like to purchase STEM related trade books. These book collections, recognized by the National Science Teachers Association (NSTA), will integrate reading, science, and inquiry providing meaningful content to students as they explore the world around them.

- **Amount Request:** \$7680.77
- **Target Population:** Kindergarten thru 5th Grade
- **Number of Children to be Served:** Approximately 608 students grades K-5
- **Succinct Summary:**
 - **Issue:** Our students continue to struggle in comprehension of informational text and content vocabulary.
 - **Change:** As a result of this grant, the materials will be used to provide hands-on learning experiences, allowing students to participate in the practices and skills needed for the 21st Century Learner. Our students will imagine, design, build, code, read, write, calculate, and communicate using highly engaging activities.
 - **Action:** Materials will be ordered. The Media Specialist will plan lesson and activities. These lessons will be embedded into the Center for Innovations’ weekly lessons. The

Media Specialist will collaborate with classroom teachers to ensure that the hands on experiences provided in the Center for Innovation will support content that is being taught in the classroom.

- **Grant Oversight:** This Project will be monitor for fidelity of implementation by both the Principal, Adam Faust, and the Assistant Principal, Michelle Banack. The Media Specialist, Kim Slade, will ensure the sustainability by creating and implementing curriculum/lessons/activities during the students’ Special Area, as well as, the 5th grade intervention time.
- **Monitoring:** The following will be monitored:
 - Fidelity of lessons and usage of materials
 - Unify Formative Assessments
 - iReady Diagnostics
 - State Assessments

- **Itemized Budget:**

KinderLab Robotics –	KIBO 21	\$499 x 2	\$998.00
Ozobot Evo Classroom Kit			\$1100.00
Dash and Dot Club Set			\$695.00
iPad Mini 128G (10-pack, Wi-Fi)			\$3740.00
Keva Plank School Pack			\$349.95
Keva Brain Builders			\$14.95
Keva Brain Builder Jr			\$14.95
NSTA’s Picture-Perfect STEM Lessons, K-2 Trade book Collection			\$383.96
NSTA’s Picture-Perfect STEM Lessons, 3-5 Trade book Collection			\$383.96
Total Budget			\$7680.77