

CARES Expanded Learning Program Partnership with the National Inventors Hall of Fame Summer 2024 Program

Review and Potential Approval to purchase the National Inventors Hall of Fame (<https://www.invent.org>) modules will support and enrich the summer program at 21 CARES TK-8 schools. CARES will facilitate the hands-on, engaging, and problem based learning modules, Shake Rattle and Roll (TK-1), Plot Coasters (2-3), Fair Games (4-5) and Fly Gliders (6-8) daily during summer program at the 21 (CARES 18 elementary and 3 middle school sites). All modules are aligned to the NGSS and empower students to collaborate, create, gain confidence and practice divergent thinking with the acclaimed summer enrichment program that has reached children nationwide for more than 30 years. Based on credible research and directly informed by world-changing inventors, Camp Invention® provides a new, tested program each year. Their engaging, hands-on modules are designed to meet the needs of TK-8 students, helping develop the Innovation Mindset — a growth mindset that instills essential skills for any area of life. The total purchase total for all modules for up to 2,000 students across 21 sites is \$96,750 (modules, shipping and tax).

The following funding sources will be used: ASES, ELOP, CDBG. The breakdown of kits per school is as follows:

- Bel Air Elementary 100 kits
- Cambridge Elementary 100 kits
- Delta View Elementary 100 kits
- El Monte Elementary 100 kits
- Fair Oaks Elementary 100 kits
- Gregory Gardens Elementary 100 kits
- Hidden Valley Elementary 100 kits
- Holbrook Language Academy - (elementary students) 100 kits
- Meadow Homes Elementary 100 kits
- Monte Gardens Elementary 100 kits
- Rio Vista Elementary 100 kits
- Shore Acres Elementary 100 kits
- Silverwood Elementary 100 kits
- Sun Terrace Elementary 100 kits
- Westwood Elementary 100 kits
- Woodside Elementary 100 kits
- Wren Avenue Elementary 100 kits
- Ygnacio Valley Elementary 100 kits
- El Dorado Middle 50 kits
- Holbrook Language Academy (middle school students) 50 kits
- Oak Grove Middle 50 kits

- Riverview Middle 50 kits

Total = 2,000 kits (1,800 elementary kits and 200 middle school kits)

- **Shake Rattle and Roll:** Children embark on a journey filled with good vibrations to discover what makes sound, how it travels into our ears and how we can change it! Inspired by everything from the sounds in their own homes to underwater whale communication to animal ear shapes, children investigate, experiment and build their own sound-based inventions.
- **Plot Coasters:** Participants fasten their seat belts, design epic roller coasters and write a bestselling story during their Plot Coasters adventure! As they rise, fall, twist and turn along a creative writing track, they make comparisons to a roller coaster track. Throughout the program, children explore the elements of a story and conduct hands-on physics investigations as they build amazing roller coasters!
- **Fair Games:** Combining mathematics and physics concepts, this experience provides a hands-on exploration of topics ranging from measurement, probability and algebraic thinking to simple machines and design engineering. Participants build carnival-themed games while using applied mathematics to get ready for the Mega Carnival!
- **Fly Gliders:** Children engage in high-flying fun as they explore the science of flight with inspiration from NIHF Inductees Orville and Wilbur Wright. Students use their most valuable tools — their own eyes and hands — as they experiment with a hand copter, paper airplanes and a heli-ball, and explore the role of wing shape and nose weight in an airplane's trajectory.