

KISS INSTITUTE^{FOR} PRACTICAL ROBOTICS

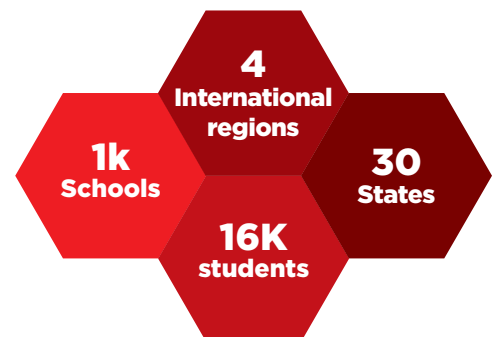
Junior Botball[®]

ABOUT US:

This sustainable program provides reusable equipment, software, standards-aligned curriculum and professional development opportunities to enable you to teach your students to write code and cover engineering design standards. The hands-on activities focus on improving computational thinking skills and promoting mastery of concepts. The program culminates in one-day public events where students showcase their robot designs and solutions.

Grade Level: K-6

WHY US:



This interactive program was developed to teach STEM fundamentals and help students of all levels achieve subject mastery through engaging and exciting hands on robotics activities!



The curriculum is constantly being edited to stay up to date and aligned with various Math and Computer Science standards.



KISS Institute provides all educators with professional development to help ensure the successful integration of this STEM education opportunity.

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About REAP

Rural Education Advancement Program (REAP) is a non-profit 501(c)3. REAP was established to bring STEM programs to K-12 students in rural locations who may not otherwise have access to STEM education. For more information about REAP please visit our website (REAPNM.org) or visit our Facebook page (Rural Education Advancement Program).

Valencia County STEM Event

REAP will support a 2019-2020 Junior Botball Challenge (JBC) through a co-curricular program at approximately 10 elementary schools in Valencia County. With funding provided by Facebook, REAP will coordinate the following:

- One full day of professional development in August and one full day of professional development in January provided by the KISS Institute for Practical Robotics (KIPR).
- JBC teachers/coaches will receive a stipend of approximately \$350 per semester from REAP.
- Each school will receive 3-5 JBC robot kits (approximate value is \$575 per kit). The kits will be shared by the teams at each school. The schools can keep the kits.
- REAP will support teachers by providing a mentor for each school who will check in weekly

Eligibility for participation requires a commitment of 1-3 teachers/coaches per school. Each teacher/coach will supervise a one hour after school robotics session each week. Plus, teachers/coaches are encouraged to use the JBC kits once a week as part of a math lesson. Teachers/coaches will have access to online curriculum. Each teacher/coach and his/her students will participate in a minimum of one JBC Event per semester.

Timeline

- August 21 Teachers/coaches attend one full day of professional development
- November 16 JBC Event with location dependent on number of teams participating
- January 15 Teachers/coaches attend one full day of professional development
- April 18 JBC Event with location dependent on number of teams participating

REAP Commitment

- Organize two professional development days and two JBC Events
- Provide JBC mentors to teachers
- Pay teachers/coaches stipends

KIPR Commitment

- Technical and curricular support to REAP and teachers
- Instructors for professional development workshops
- Support for Junior Botball Challenge Events

School/District Commitment

- A venue for at least one regional JBC Event each semester (usually a gym)
- Provide substitutes for teachers/coaches to attend JBC professional development
- Wi-Fi compatible devices (laptops) for programming autonomous robots
- Transportation to JBC Events – if needed
- After-school snacks – if needed

Teacher Commitment

- Each teacher will coach an afterschool JBC program a minimum of one hour, one day per week
- The 2-3 teachers/coaches, combined, will provide three days of JBC afterschool per week
- Teachers/coaches are encouraged to integrate the JBC robots in their math class at least one day each week
- Teachers/coaches and their students will participate in the Valencia County JBC Events on November 16 and April 18