

On a Mission to Support STEM Education & Promote Science Literacy

Science Heads Inc. is a non-profit founded by local educators, scientists, engineers, and professionals who share a passion to promote STEM (Science, Technology, Engineering, and Math) education.

An educated and informed populace is necessary for a strong nation. Promoting the understanding and appreciation of STEM subjects is critical in order for our country to successfully face the challenges ahead.

Science Heads Inc. is an IRS approved 501(c)(3) public benefit non-profit corporation.

Learn more about us at
www.ScienceHeads.org

*Background image taken during HAB flight

High Altitude Balloon STEM Program

- Students Design, Build and Watch Their Experiments Launch to the Edge of Space.
- Integrates with Middle School & High School Science and Engineering Courses.
- Offers a Unique Hands-On Real-World Challenge.
- Introduces Students to the Process of Professional Science.

The HAB/STEM Program is possible because of generous donations from local companies, organizations and individuals who are motivated to inspire students to explore STEM subjects.

Please Donate Today
www.ScienceHeads.org

Science Heads High Altitude Balloon/STEM Program

Providing Middle & High School students a real-world science experience.



The Science HAB/STEM Program is designed to give students an opportunity to experience real science.

Modeled on explorations of space, the program involves students in a process that is similar to what they would experience doing professional scientific research.



It Starts in the Classroom

The HAB/STEM program offers teachers a unique opportunity to integrate a fun, hands-on, collaborative, and challenging exercise into their course content and science/engineering lessons.

Twice a year students are invited to submit proposals for experiments to be carried to the edge of space where the conditions are similar to that found on the surface of Mars.



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"We absolutely enjoyed being part of the process! It was a great experience for our students and they learned a lot about the process of science."

IUSD Middle School Science Teacher

Hands-On & Collaborative

The students are encouraged to work in groups under the supervision of their teacher. Together they design experiments to answer key questions in their scientific field of interest.

Their designs must take into account the real-world constraints of the HAB including limits on weight, dimensions, power, extreme low temperature, low atmospheric pressure, and the high UV radiation to which their experiments may be exposed.

The students then submit their proposals for consideration by a committee of professional scientists and engineers.

Technical assistance is provided to the winning applicants while they build their projects. They then get to experience the thrill of watching their experiments launched to the edge of space.

Once recovered, the experiments are returned so the students can evaluate their data and write a paper describing the results.

Participation is Easy

Intermediate and High School teachers are encouraged to incorporate the HAB/STEM Program into their planning for the school year. Launches occur twice a year: typically in November and April.

A "Call for Experiments" announcement is posted six weeks in advance on the Science Heads web site. At that time, instructions can be downloaded providing all the details needed to submit a winning proposal.

Contact Us

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