

SLOOH

4.0

VERSION:

FALL: 2019

Inspired by the Age of Discovery, the new version of Slooh is designed for students and is the fruition of Slooh's National Science Foundation grant, 'Curriculum Driven Gamification of Space Exploration'.

SUPPORTED BY THE NSF

The NSF awarded Slooh an SBIR Grant in 2018





Slooh Astrolab

Introducing Slooh Astrolab, a turn-key curricular space lab experience for students to learn scientific reasoning in the context of exploring space with their peers via a network of online telescopes.

Private Virtual Clubhouse to Share Observations

Ready to explore space? @Slooh brings astronomy to classrooms around the world. The best part? Slooh incorporates #GSuiteEdu directly into its interface for single-sign-on & #GoogleClassroom sharing. To infinity

Slook

and beyond: goo.gle/2YvhgDH

Google for Education

COLLABORATION



EDUCATION

Educators

Curricula with Astronomy

EXPLORATION

Robotic Telescopes +

Photo Capture

Space for Everyone

Slooh's suite of tools work in unison to make offering astronomy easy, engaging and affordable for institutions without the requisite equipment or expertise on staff. No astronomy background is required and students are guided in self-directed learning with access to astronomy educators.



Robotic Telescopes

Unlike simulation software, Slooh provides real-time viewing and control of robotic telescopes, including seven telescopes situated at its flagship observatory at the Institute of Astrophysics of the Canary Islands, one of the world's top observatory sites, three telescopes based in Santiago, Chile, offering complementary views of the southern skies, and five new telescopes coming online in 2020 in the United Arab Emirates.

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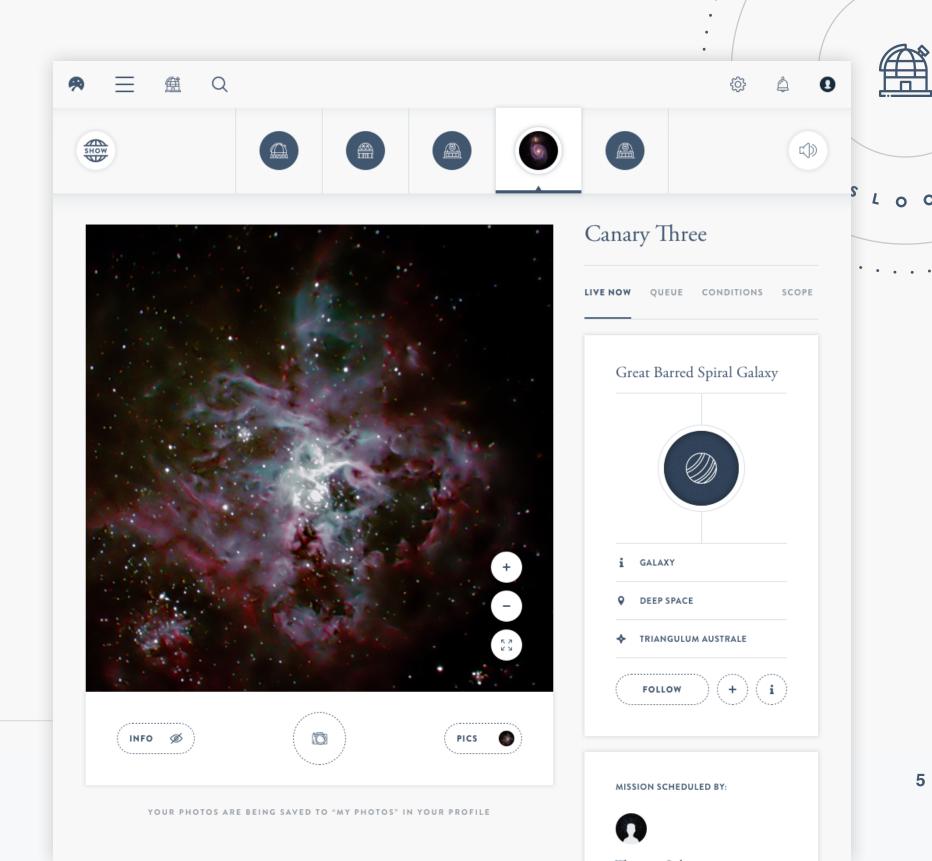


Live Viewing

Students get inspired to learn by looking into space through Slooh's patented Mission Interface. Our live views of space include a tandem information panel containing an array of contextual educational modules that aide in the learning process, including recorded audio.

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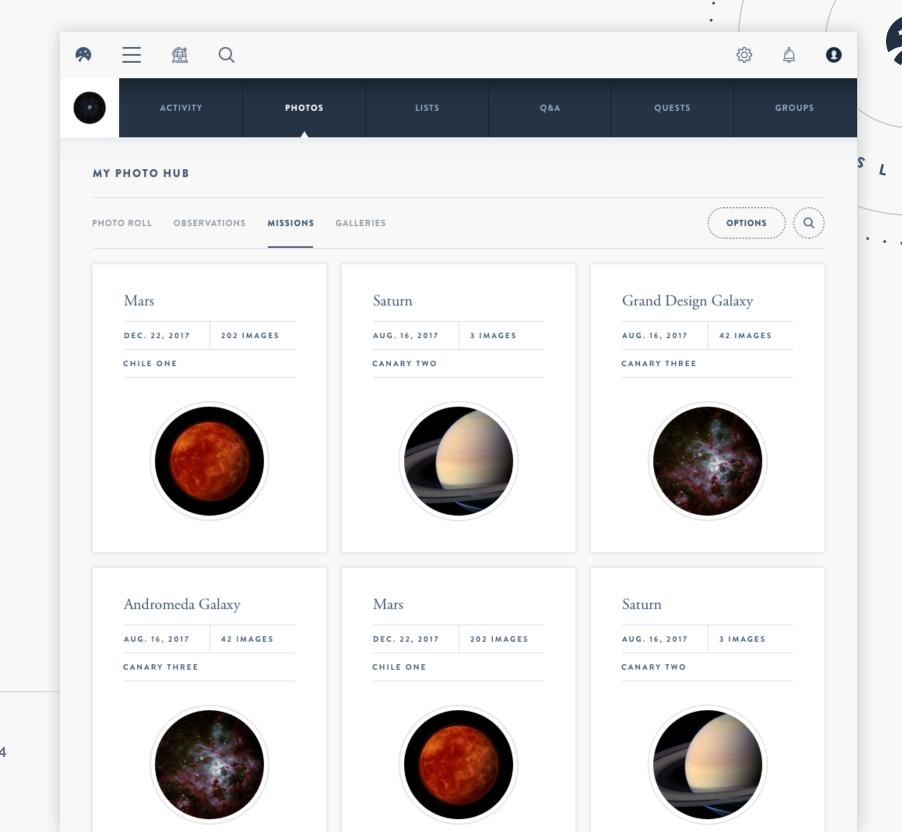
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TELESCOPE

Advanced Control

Astrolab students have the ability to set up their own telescope missions using astronomical catalogs, coordinates, & imaging filters. They automatically obtain FITS file images from that mission in their Photo Hub once the mission is complete.

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PROFILE

Curriculum Quests

Students learn to explore space in a self-directed manner by completing learning activities which challenge them to use the telescopes to collect and analyze data to form their own conclusions.

Students are more likely to retain information by completing tasks that apply their learning.

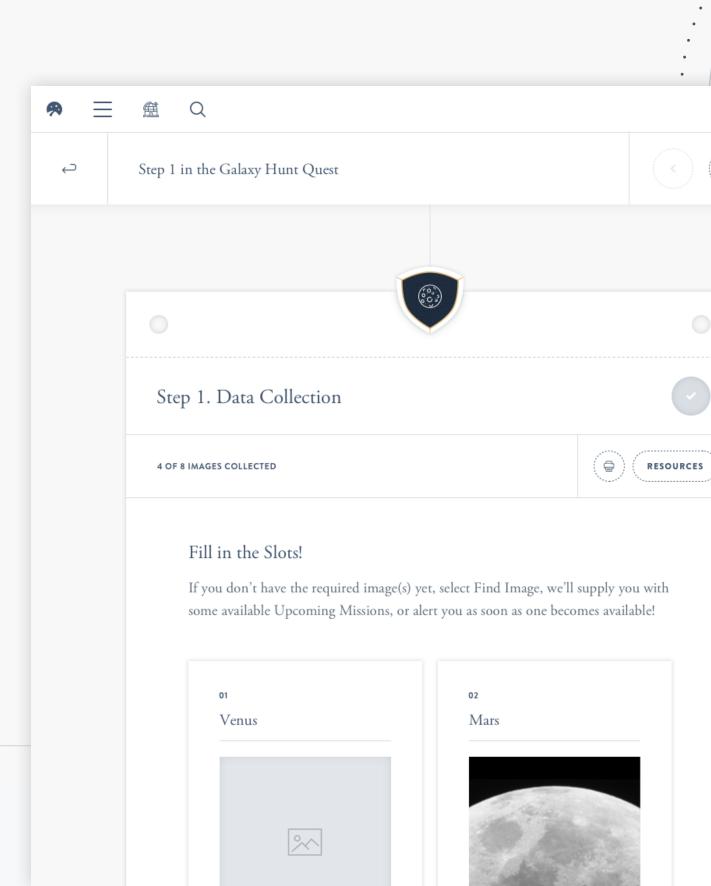
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QUESTS

100 H

Gamification

We've gamified exploring space with

Quests. Students collect Gravity Points to
move up the Leaderboard and earn

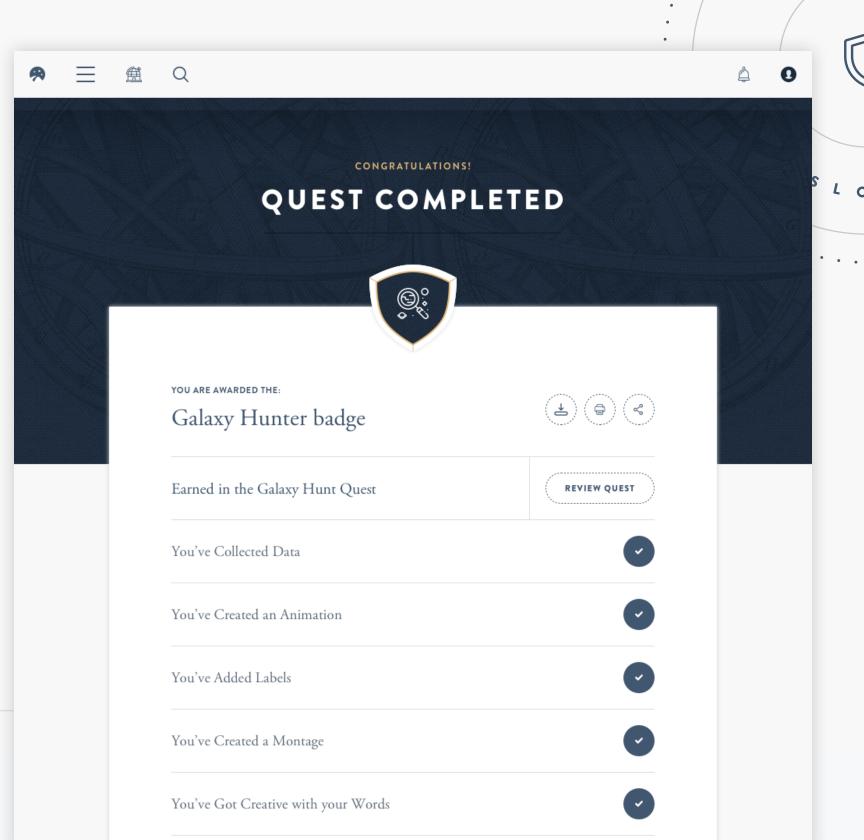
Badges for completing Quests which
challenge them to hunt down phenomena
in space and follow in the footsteps of
famous discoveries.

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QUESTS

Learning Guides

Slooh Guides are a starting point to understand basic concepts and lead students to the most interesting objects in space.

Our astronomers have curated content across the spectrum of S.T.E.A.M. for over 1000 celestial objects, known as the Slooh 1000.

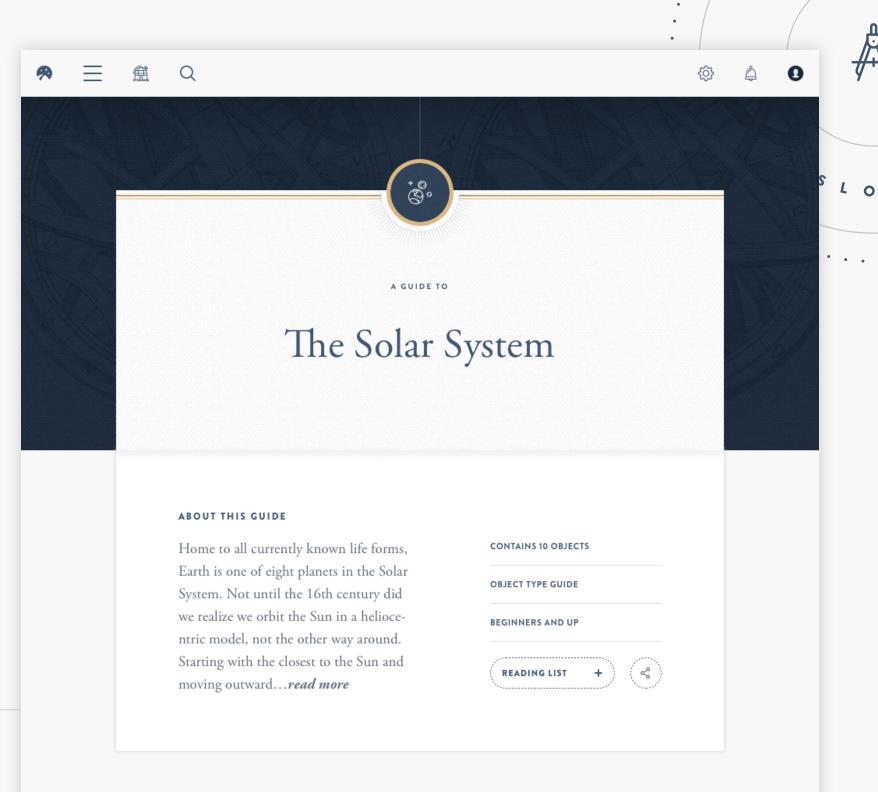
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GUIDES

Live Shows and Lectures

Slooh's Live Shows are anchored by Paul Cox and our team of astronomers, featuring live feeds of asteroids, comets, transits, eclipses, solar activity, auroras, and more. Monitor with us the happenings in space 24 hours a day and join us virtually on expeditions to Kenya, the Faroe Islands, Indonesia, Iceland, Australia, Chile, Idaho, and Alaska.

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The Slooh Community is founded upon the principle that telescopes are more interesting and affordable as a shared, social experience. When you look through a Slooh telescope, you are doing it in unison with a global community, looking up in wonder together. Therefore, we designed the experience to bring about an exchange of ideas.









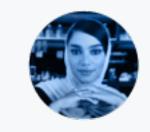




















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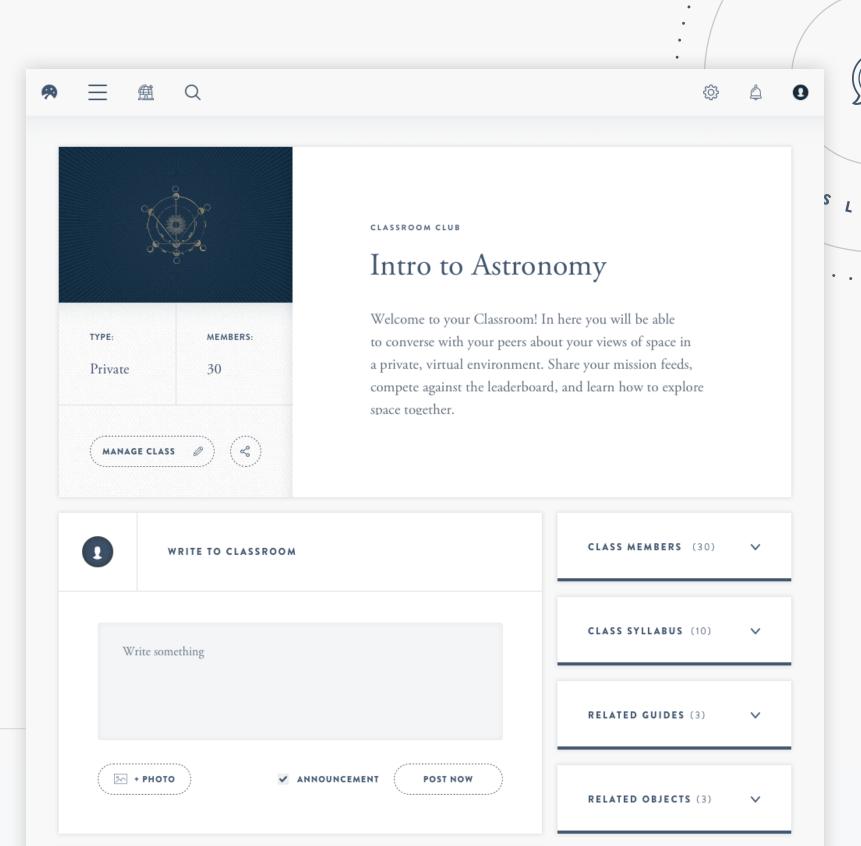
Astronomy Clubhouses

Slooh Clubhouses offer students a private environment to exchange ideas with their peers, ask and answer questions, and find assigned learning materials.

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CLASSROOM

Inspire with Stories

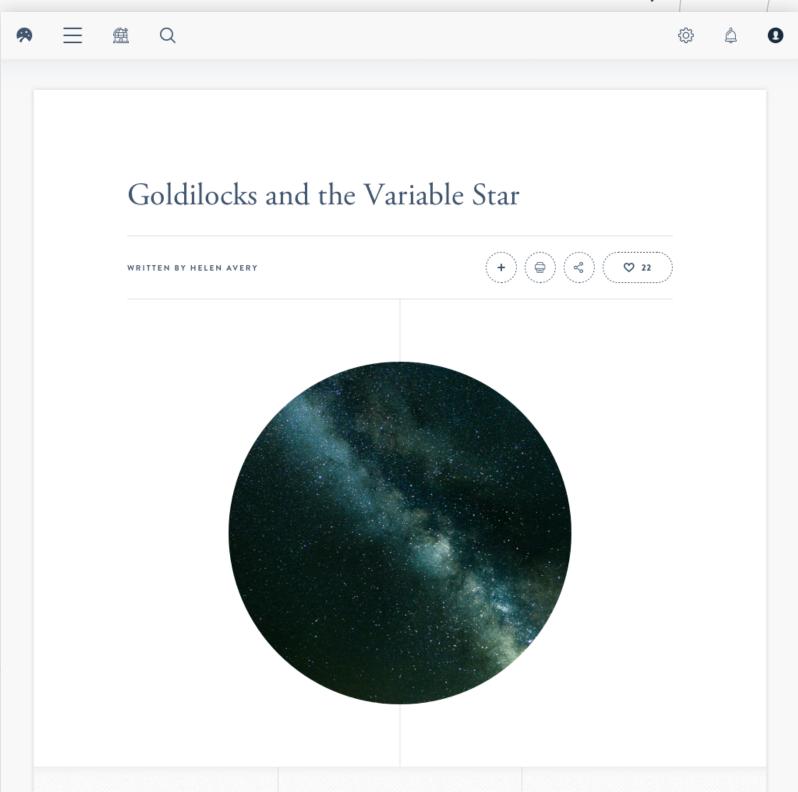
Our vision of astronomy welcomes all forms of expression including art and literature. Our Illuminations stories inspire wonder and offer original perspectives regarding our place in the cosmos.

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13

STORIES

SUBJECT:

PUBLISHED ON:

READING TIME:

Syllabus

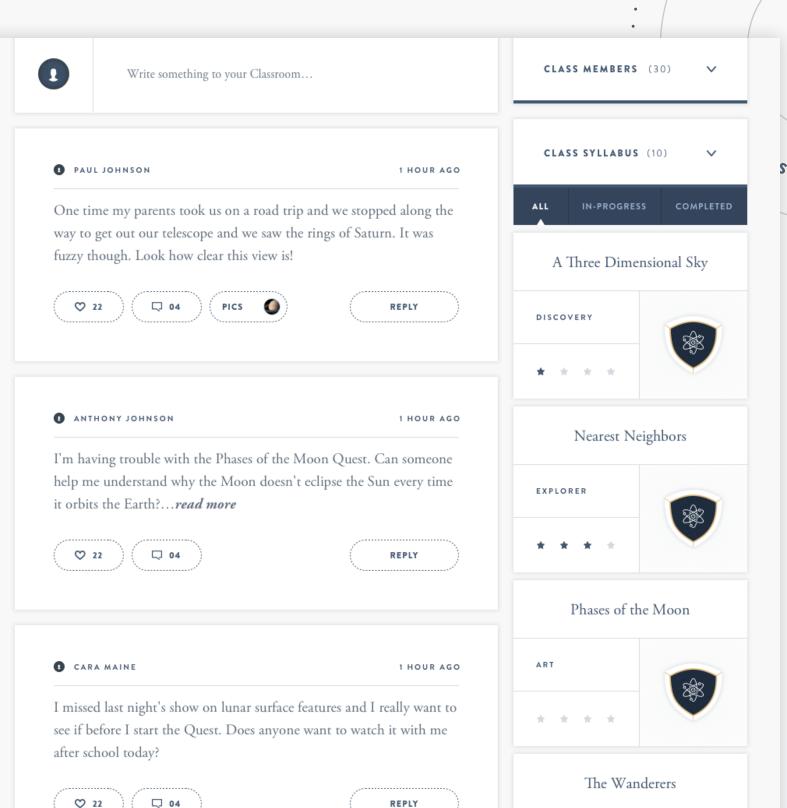
Slooh's Astrolab curriculum covers astronomy topics for college astronomy 101 courses, in addition to scientific reasoning and literacy. Quests are each associated with appropriate NGSS curriculum codes and include a teacher's edition.

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I missed las see if before after school



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C A S S R O O M

Review Student Progress

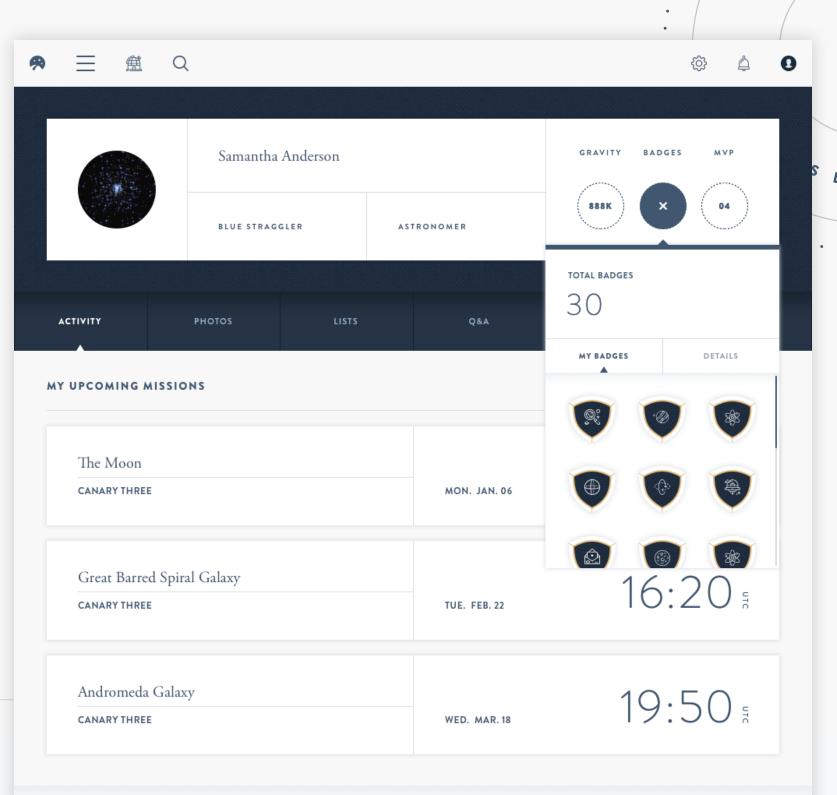
Professors/teachers can track student progress through Quests, Badges, Gravity Points, and much more via an administrative interface, as well as through our integration with Google for Education.

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PROFILE

Pricing



Telescope reservations for both teachers and students

Collect images and complete curriculum-driven Quests

Access to live and recorded weekly virtual lectures/shows by Slooh Astronomers

Account management for professors/teachers including Google for Education integration

Slooh moderated discussion boards and leaderboards

\$60.00 \$

ANNUAL PRICE PER STUDENT

INDIVIDUALLY PURCHASED

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Case Study

With the launch of Slooh
Astrolab in Fall 2019, Slooh has
received support from
institutions such as the City
University of New York.

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Professor Testimonial



Updating our curriculum to provide students with real-time observing experiences, such as what Slooh Astrolab could provide, would greatly enhance the hands-on education of our students and their understanding of the fundamental practices of astronomers. In anticipation of the launch of Slooh's new platform this coming fall, we are engaging in conversation on ways to incorporate Slooh Astrolab Quests into the Astro 101 laboratory curriculum across the department.

CHARLES LIU

DEPARTMENT OF PHYSICS AND ASTRONOMY | CUNY COLLEGE OF STATEN ISLAND

The Difficulty of Teaching Astronomy

Astronomy is difficult to teach in the classroom. We understand the barriers and have the tools to help teachers focus on what's important.

Very Steep Learning Curve

Evening On-site Visit Requirement

Obtaining Proper Images for Research

Light Pollution

Weather Conditions

Expensive Equipment

Our platform is designed to give students all they need to understand astronomy.

The 5E Model

Slooh Classroom aligns to The 5E Model developed in 1987 by the Biological Sciences Curriculum Study, which promotes collaborative, active learning in which students work together to solve problems and investigate new concepts by asking questions, observing, analyzing, and drawing conclusions.

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The student's interest is captured and the topic is established.

The student is allowed to construct knowledge in the topic through facilitated questioning and observation.

Students are asked to explain what they've discovered, and the instructor leads a discussion to refine the students' understanding.

Students are asked to apply what they have learned in different but similar situations, and the instructor guides the students toward the next discussion topic.

The instructor observes student's knowledge and understanding, and leads students to assess whether what they have learned is true.

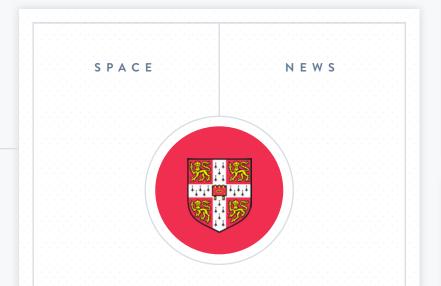
Understanding the Barriers

Astrophysicist Vinesh Maguire Rajpaul of the University of Cambridge, UK, and colleagues say that misconceptions about size seem to reflect deeper misunderstandings.

"We found that if students demonstrate a basic understanding of two different astronomical objects by giving basic, one-sentence explanations of them, they are almost guaranteed to be able to rank them correctly." says coauthor Christine Lindstrom of Oslo Metropolitan University (OMU) in Norway.

CAMBRIDGE CORE





Astronomy E Review

RESEARCH

SPACE



Teaching Ast Why and

NASA/SA

- **♦** AUTHENTIC
- ♣ INCLUSIVE
- ♣ INNOVATIVE
- **♦** UNITING

The New Space Age is upon us. People haven't been this inspired by space since we landed a human on the moon. Yet, while people have an innate curiosity about the cosmos, they have no practical, hands-on means of exploring it for themselves. With Slooh, people with little knowledge of astronomy or experience with telescopes can look into space just as professional astronomers do. Slooh teaches astronomy as a curricular, co-curricular, and extracurricular activity for

schools and after-school programs.

Join us in our mission to teach the world to explore space, by launching an Astrolab on the Slooh platform today!

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