



S L O O H

VERSION: 4.0

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





Astronomy Club

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



EDUCATION

S.T.E.A.M. Curricula with Astronomy Educators

EXPLORATION

Robotic Telescopes + Photo Capture

COLLABORATION

Private Virtual Clubhouse to Share Observations

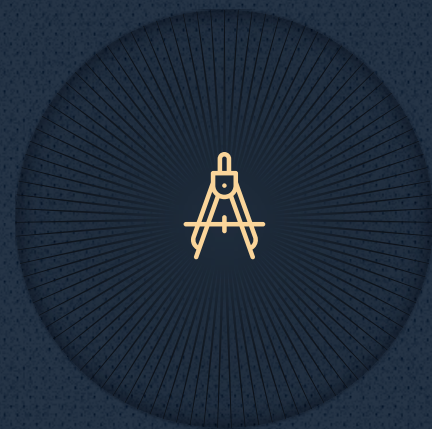


Space for Everyone

Slooh's suite of tools work in unison to make offering astronomy easy, engaging and affordable for schools 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.



TELESCOPES



GUIDES



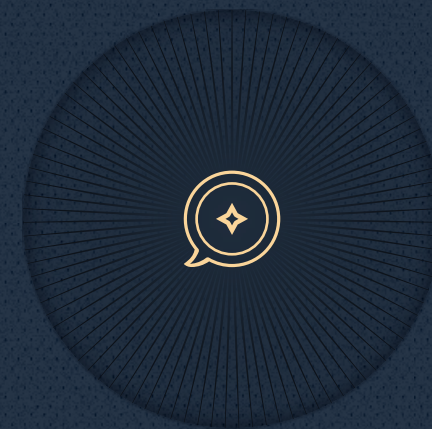
STORIES



SHOWS



QUESTS



CLUBS

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, and three telescopes based in Santiago, Chile, offering complementary views of the southern skies.

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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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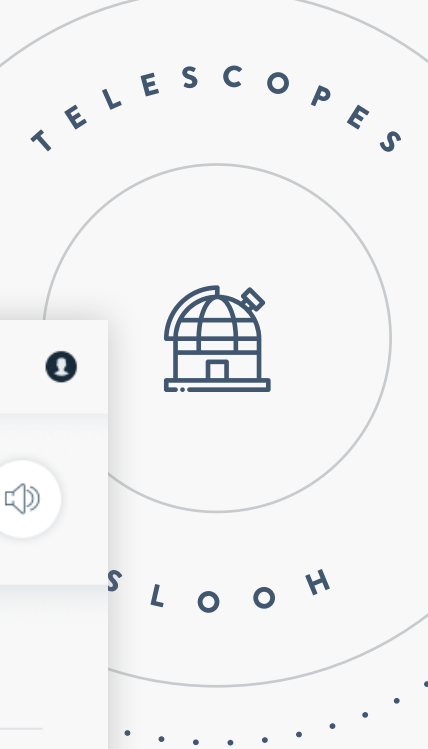


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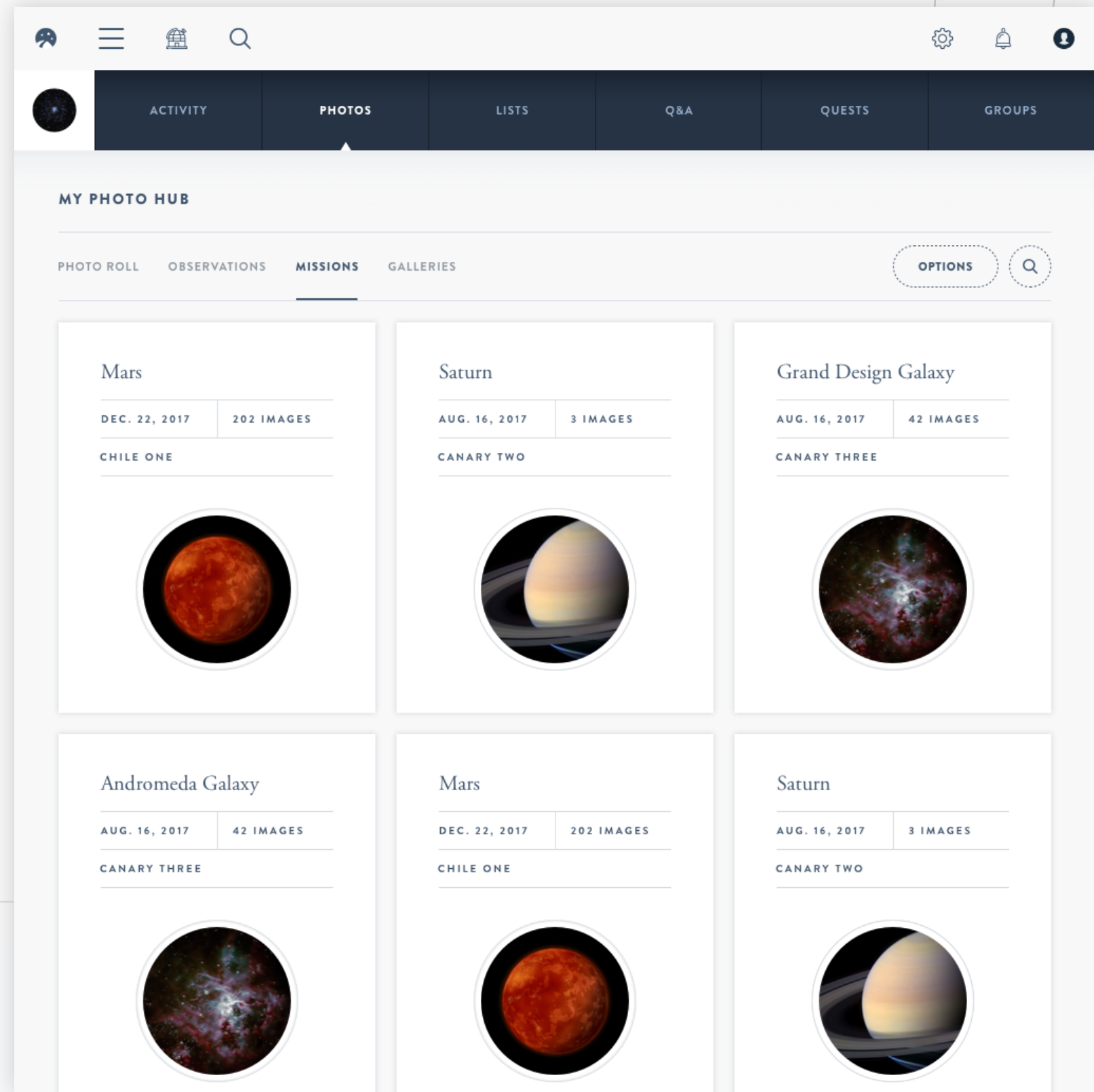
The screenshot displays the Slooh live viewing interface. At the top, there is a navigation bar with icons for home, menu, telescope, search, settings, notifications, and user profile. Below this is a row of circular icons representing different celestial objects, with the selected one highlighted. The main viewing area shows a vibrant image of the galaxy 'Canary Three' (IC 5063) in the constellation Triangulum Australe. To the right of the image is an information panel titled 'Canary Three' with tabs for 'LIVE NOW', 'QUEUE', 'CONDITIONS', and 'SCOPE'. The panel includes a circular icon of the galaxy, a list of categories: 'GALAXY', 'DEEP SPACE', and 'TRIANGULUM AUSTRALE', and a 'FOLLOW' button. At the bottom of the viewing area are buttons for 'INFO', a camera icon, and 'PICS'. A small text at the bottom of the interface reads: 'YOUR PHOTOS ARE BEING SAVED TO "MY PHOTOS" IN YOUR PROFILE'.



Advanced Control

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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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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Step 1 in the Galaxy Hunt Quest

Step 1. Data Collection

4 OF 8 IMAGES COLLECTED

RESOURCES

Fill in the Slots!

If you don't have the required image(s) yet, select Find Image, we'll supply you with some available Upcoming Missions, or alert you as soon as one becomes available!

01
Venus

02
Mars

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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CONGRATULATIONS!
QUEST COMPLETED

YOU ARE AWARDED THE:
Galaxy Hunter badge

Earned in the Galaxy Hunt Quest

REVIEW QUEST

- You've Collected Data ✓
- You've Created an Animation ✓
- You've Added Labels ✓
- You've Created a Montage ✓
- You've Got Creative with your Words ✓

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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The screenshot displays a web browser window with a dark blue header and a white main content area. The header contains navigation icons (home, menu, globe, search) on the left and settings, notifications, and user profile icons on the right. The main content area features a dark blue background with a central white box. At the top of this box is a circular icon with a sun and planets. Below it, the text reads "A GUIDE TO" followed by "The Solar System" in a large, serif font. Underneath, there is a section titled "ABOUT THIS GUIDE" with a paragraph of text: "Home to all currently known life forms, Earth is one of eight planets in the Solar System. Not until the 16th century did we realize we orbit the Sun in a heliocentric model, not the other way around. Starting with the closest to the Sun and moving outward...*read more*". To the right of this text are three horizontal lines, each with a label: "CONTAINS 10 OBJECTS", "OBJECT TYPE GUIDE", and "BEGINNERS AND UP". At the bottom right of the white box, there is a "READING LIST" button with a plus sign and a share icon.

GUIDES



SLOOH

Collaborative Learning

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 school community, looking up in wonder together. Therefore, we designed the experience to bring about an exchange of ideas within a classroom structure.

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Astronomy Clubhouses

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

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The screenshot shows a web interface for a Slooh Classroom Club. At the top, there is a navigation bar with icons for home, menu, globe, search, settings, notifications, and profile. The main content area features a dark blue header with a golden geometric logo. Below the header, a table displays the club's details: 'TYPE: Private' and 'MEMBERS: 30'. A 'MANAGE CLASS' button with a pencil icon and a share icon are also visible. To the right, the club title 'CLASSROOM CLUB' and 'Intro to Astronomy' are displayed, followed by a welcome message: 'Welcome to your Classroom! In here you will be able to converse with your peers about your views of space in a private, virtual environment. Share your mission feeds, compete against the leaderboard, and learn how to explore space together.' Below this, there is a 'WRITE TO CLASSROOM' section with a user profile icon and a text input field containing the placeholder 'Write something'. At the bottom of this section, there are buttons for '+ PHOTO', 'ANNOUNCEMENT' (checked), and 'POST NOW'. On the right side, a sidebar contains four menu items: 'CLASS MEMBERS (30)', 'CLASS SYLLABUS (10)', 'RELATED GUIDES (3)', and 'RELATED OBJECTS (3)', each with a dropdown arrow.

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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L I V E S T R E A M S

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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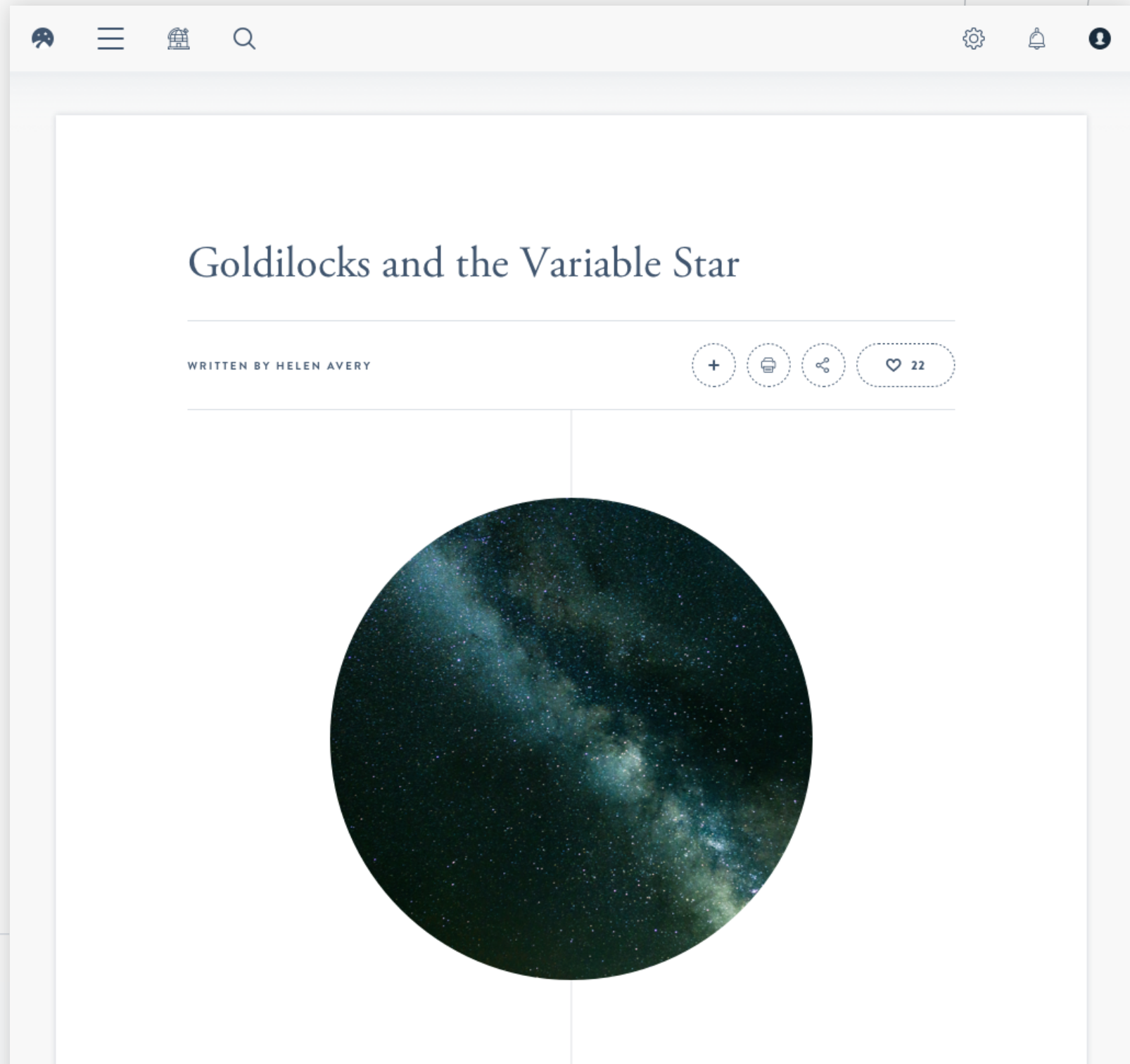
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S T O R I E S



S L O O H

SUBJECT:

PUBLISHED ON:

READING TIME:

Next Gen Science Standards

Slooh's curriculum covers astronomy topics for 4th grade to college 101, 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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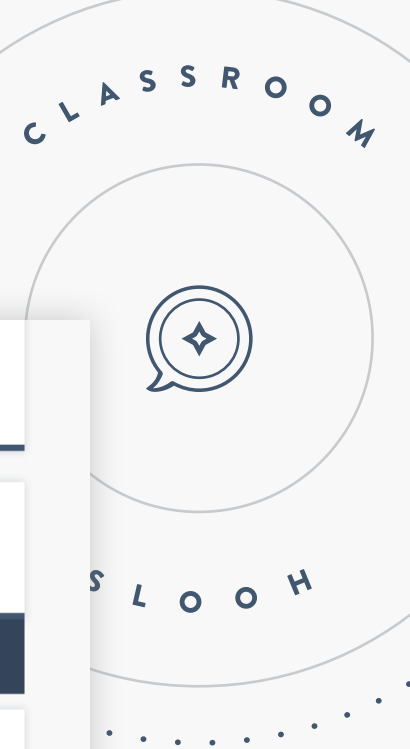
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The screenshot displays the Slooh Classroom interface. At the top, there is a header with a profile icon and a text input field labeled "Write something to your Classroom...". Below this is a feed of three posts:

- PAUL JOHNSON** (1 HOUR AGO): "One time my parents took us on a road trip and we stopped along the way to get out our telescope and we saw the rings of Saturn. It was fuzzy though. Look how clear this view is!" (22 likes, 04 comments, PICS, REPLY)
- ANTHONY JOHNSON** (1 HOUR AGO): "I'm having trouble with the Phases of the Moon Quest. Can someone help me understand why the Moon doesn't eclipse the Sun every time it orbits the Earth?...*read more*" (22 likes, 04 comments, REPLY)
- CARA MAINE** (1 HOUR AGO): "I missed last night's show on lunar surface features and I really want to see if before I start the Quest. Does anyone want to watch it with me after school today?" (22 likes, 04 comments, REPLY)

On the right side, there is a sidebar menu with the following sections:

- CLASS MEMBERS** (30)
- CLASS SYLLABUS** (10) with sub-tabs: ALL, IN-PROGRESS, COMPLETED
- A Three Dimensional Sky** (DISCOVERY, 4 stars)
- Nearest Neighbors** (EXPLORER, 4 stars)
- Phases of the Moon** (ART, 4 stars)
- The Wanderers** (ART)



Review Student Progress

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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The screenshot shows a user profile for Samantha Anderson. The profile includes a circular profile picture of a galaxy, the name 'Samantha Anderson', and two badges: 'BLUE STRAGGLER' and 'ASTRONOMER'. On the right, there are three circular progress indicators for 'GRAVITY' (888K), 'BADGES' (marked with an 'X'), and 'MVP' (04). Below these is a 'TOTAL BADGES' section showing '30'. A 'MY BADGES' section displays a grid of nine different badge icons. At the bottom, a 'MY UPCOMING MISSIONS' table lists three missions:

Mission Name	Event	Date	Time (UTC)
The Moon	CANARY THREE	MON. JAN. 06	
Great Barred Spiral Galaxy	CANARY THREE	TUE. FEB. 22	16:20
Andromeda Galaxy	CANARY THREE	WED. MAR. 18	19:50

Below the missions table is a section for 'RECENT OBSERVATIONS'.

Pricing



All students and teachers have the ability to reserve telescopes

Collect images and complete curriculum-driven Quests

Custom scheduled and designed virtual lectures/shows by Slooh Astronomers

Training/support for teachers and career mentoring for students

Teacher account management using Google for Education

Slooh moderated school/district group discussion boards and leaderboards

\$30.00 USD

PRICE PER YEAR PER STUDENT

PRICE DISCOUNTS AT SCALE

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Case Study

In 2019 Slooh ran a pilot program for twenty 2nd grade students in the Science and Nature Program at the American Museum of Natural History in New York.

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NATURAL
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Teacher Testimonials



"I just wanted to thank you so much for providing us with the classroom materials for your wonderful presentation. The parents were beyond excited to have their children participate in the program! Our associate director was in class that day and felt that the program will be a wonderful addition to the class. She got great feedback from parents after class as well."

MARIEL O'BRIEN | ASTROPHYSICS EDUCATOR
SCIENCE AND NATURE PROGRAM, AMNH.

Case Study

In 2018, Slooh ran an eight week pilot program for fifty-one 6th and 7th grade students at the Washington Montessori School in Connecticut. The students of WMS accumulated Gravity Points for exploring and collected images of 10 different types of celestial objects to complete their Quests.

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Student Testimonials



“It changes the way we learn about astronomy. It’s great because we don’t have to be reading boring books to learn about things that can be captured with technology as amazing as Slooh”.

JACK, 36 GRAVITY POINTS

“I think Slooh made it more fun to learn about astronomy because it wasn’t just pictures, it was more like sharing with the community that Slooh created”.

ESMEE, 230 GRAVITY POINTS

The Difficulty of Teaching Astronomy

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

Light
Pollution

Weather
Conditions

Expensive
Equipment

Obtaining Proper
Images for Research

Very Steep
Learning Curve

Evening On-site
Visit Requirement

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

About Slooh

✦ AUTHENTIC

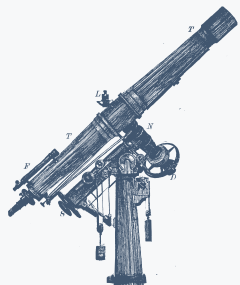
✦ INCLUSIVE

✦ 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.

A S T R O N O M Y



Thank you!

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

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