



EXPLORE SCIENCE Earth & Space

Welcome to the Explore Science: Earth & Space Toolkit

We're so glad you're joining organizations across the country to educate and excite the public about Earth and space science content using the Explore Science: Earth & Space toolkit! In collaboration with NASA, the National Informal STEM Education Network (NISE Net) has assembled a new set of Earth and space activities and professional resources with connections to science, technology, and society.

PHYSICAL TOOLKIT CONTENTS

On the backside of this letter, you'll find a list of the materials contained in your 2019 Explore Science: Earth & Space toolkit. The toolkit materials were designed to help partners engage participants in Earth and space phenomena, reflect on science as a way of knowing, and identify as science learners. The toolkit includes hands-on activities, training materials for staff and volunteers, and promotional materials. This year marks 50 years since NASA's Apollo 11 Moon landing—you'll also find public, professional, and promotional toolkit materials to help celebrate this special anniversary! We've also included Spanish translations for all of the NISE Network educational materials, plus a bilingual promotional banner, right in the box.

COLLABORATING

We strongly encourage you to collaborate with local experts consisting of Earth and space science professionals as well as science enthusiasts in your area. Volunteer experts are a key ingredient to many successful public engagement efforts. The toolkit includes training and orientation materials to help prepare your event volunteers and staff for using the activities.

ADDITIONAL MATERIALS ONLINE

Electronic copies of all the Explore Science: Earth & Space toolkit materials are available online. You can download these individually or as a complete digital toolkit from <http://www.nisenet.org/earthspacekit>. The website also has many other resources you can use for your Explore Science programs, including links to all of our educational programs, media, and training videos. You can also learn more about upcoming online workshops at <http://www.nisenet.org/events/online-workshop>.

REPORTING AND EVALUATION

Each organization that receives a physical kit is **required** to fill out a simple report about their local event and implementation efforts. You will be contacted with more details about this required report in early 2019. Additionally, NISE Network evaluators may contact you to ask for optional feedback to learn about your experience with Network products, and to determine the impact of this project. We greatly appreciate your help and feedback.

Thank you for all your efforts to engage your local audiences in Earth and space science! We look forward to learning more about how you use the toolkit during events and throughout the year!

The NISE Network Explore Science toolkit team

NISE NATIONAL INFORMAL
STEM EDUCATION
NETWORK

Explore Science: Earth & Space Toolkit Contents

PRINTED MATERIALS

Planning and promotional materials

- Welcome letter + list of toolkit contents
- *2019 Planning, Partnership, and Program Guide* **New Apollo 11**
- Large promotional banners **New Spanish!**
- Sample press release **New Spanish!**
- Photo release form
- Sign stands
- Table cloths
- NASA Space Place stickers and bookmarks **New**
- Temporary tattoos **New**

Training materials

- *The Moon: NASA is going back and looking forward* slides and notes printout **Apollo 11**
- *Activity Overview* slides and notes printout **New**
- Activity facilitator guides **New Apollo 11**
- *Tips for Leading Hands-on Activities*
- Girl Scouts Space Science Badge Booklets—Daisy, Brownie, and Junior

Hands-on STEM activities (complete with materials and supplies for 100 learners!)

- *Exploring Earth: Rising Seas* **Spanish! Apollo 11**
- *Exploring Earth: Land Cover* **New Spanish!**
- *Exploring Earth: Temperature Mapping* **New Spanish!**
- *Exploring the Solar System: Hide and Seek Moon* **Spanish! Early Childhood Apollo 11**
- *Exploring the Solar System: Observe the Sun* **New Spanish!**
 - *Tactile Sun sheets* **New**
- *Exploring the Solar System: Pocket Solar System* **Spanish! Apollo 11**
- *Exploring the Solar System: Stomp Rockets* **Spanish!**
 - *Sounding Rockets poster* **Spanish!**
- *Exploring the Universe: Filtered Light* **Spanish!**
- *Exploring the Universe: Expanding Universe* **New Spanish!**
- *Exploring the Universe: Space Guess Quest* **New Spanish! Game**
 - *Objects in Our Universe poster* **New Spanish!**
- *Exploring the Universe: Static Electricity* **New Spanish!**

Media and graphics

- *Breakfast Moon* by Meg Grower and illustrated by David Barker **New Spanish! Apollo 11**
- *Getting a Feel For Lunar Craters* **New Apollo 11**
- *Understanding Small Worlds in the Solar System* **New Apollo 11**
- Complete sets of NASA's exoplanet travel posters **New**

DIGITAL KIT (ON USB THUMB DRIVE)

Planning and promotional materials

- Welcome letter + list of toolkit contents
- *2019 Planning, Partnership, and Program Guide* **New Apollo 11**
- Large promotional banners **New Spanish!**
- Customizable press release **New Spanish!**
- Photo release form
- Digital copies of all promotional materials including signs, photos, ads, and posters

Training materials

- *The Moon: NASA is going back and looking forward* presentation **New Apollo 11**
- *The Apollo Lunar Landing Sites* video **New Apollo 11**
- *Activity Overview* presentation **New**
- Activity facilitator guides **New Apollo 11**
- *Tips for Leading Hands-on Activities*
- Activity and content training videos for each activity, included in your kit and also online: <https://vimeo.com/nisenet/explore-science-earth-space> **Apollo 11**

Hands-on STEM activities

- Digital copies of all activity guides and graphics **New Spanish! Apollo 11**
- *Engineering is Elementary* afterschool modules
 - *Worlds Apart: Engineering Remote Sensing Devices*, included in your kit and also online: <https://www.eie.org/engineering-everywhere/curriculum-units/worlds-apart>
 - *Testing the Waters: Engineering a Water Reuse Process*, included in your kit and also online: <https://www.eie.org/engineering-everywhere/curriculum-units/testing-waters>