



**ONLINE
WORKSHOPS**

The Science Behind the 2018 Explore Science: Earth and Space Toolkit – Looking Beyond the Solar System

Online Workshop Summary of Resources
3-13-2018

Online Workshop Presenters

- Darrell Porcello, Ph.D, NISE Net Earth & Space, Co-I
- Katherine Kornei, Ph.D, Astrophysicist and Science Educator
- Jeannie Colton, NISE Net Developer and Science Educator
- Lindsay Bartolone, M.S., NISE Net Earth & Space Content Expert

Recording of the Online Workshop

- <https://vimeo.com/260269007>

Workshop Resources

- More about the Hubble Deep Fields
http://www.spacetelescope.org/science/deep_fields/
- James Webb Space Telescope (JWST) mission website
<https://www.jwst.nasa.gov/>
- James Webb Space Telescope (JWST) unfolding video
<https://www.youtube.com/watch?v=vpVz3UrSsE4>
- Video about using gold on the JWST mirrors
<https://www.youtube.com/watch?v=t2OuCPUxxAA>
- Animation showing transit method used to discover exoplanets
<https://exoplanets.nasa.gov/interactable/11/index.html#/2>
- Updated count of exoplanets discovered
<https://exoplanets.nasa.gov/>

- **Kepler Orrery video**
https://www.youtube.com/watch?v=qeRlkxlyr_0
- **Barycenter primer from NASA Space Place**
<https://spaceplace.nasa.gov/barycenter/en/>
- **Extensions to the 2018 toolkit activities on NASA Wavelength**
<http://nasawavelength.org/list/2022>
- **Sun Earth Universe exhibition application**
<http://www.nisenet.org/sunearthuniverse>
- **Universe of Learning & ASTC webinars**
<http://www.astc.org/profdev/universe-learning-webinars/>
- **Explore Science: Let's Do Chemistry Kit overview document and how to apply**
<http://www.nisenet.org/chemistry-apply>

2018 Explore Science: Earth & Space Activity Demos

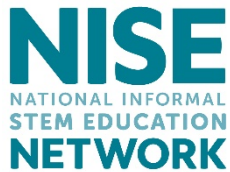
- **Exploring the Universe: Pack a Space Telescope activity**
<http://www.nisenet.org/catalog/exploring-universe-pack-space-telescope-2018>
- **Exploring the Universe: Exoplanet Transits activity**
<http://www.nisenet.org/catalog/exploring-universe-exoplanet-transits-2018>
- **Exploring the Universe: Objects in Motion activity**
<http://www.nisenet.org/catalog/exploring-universe-objects-motion-2018>
- **Stomp Rockets poster with atmosphere layers**
http://www.nisenet.org/sites/default/files/exsci_space_rockets_poster.pdf

2018 Explore Science: Earth & Space Digital Toolkit Resources

- **Download digital toolkit**
<http://www.nisenet.org/earthspacekit-2018>
- **Explore Science: Earth & Space toolkit training and content videos**
<https://vimeo.com/nisenet/explore-science-earth-space>

Relevant Online Workshops

- **Online Workshop: The Science Behind the 2018 Explore Science: Earth & Space Toolkit – Exploring Earth and the Solar System recording and resources**
<http://www.nisenet.org/catalog/online-workshop-science-behind-2018-explore-science-earth-and-space-toolkit-exploring-earth>
- **Online Workshop: Learn More about the 2018 Explore Science: Earth & Space Toolkit recording and resources**
<http://nisenet.org/catalog/online-workshop-whats-your-2018-explore-science-earth-space-toolkit-recorded>



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