



## WEB RESOURCES: ANYONE OUT THERE?

Find this document online at

<http://www.ncsciencefestival.org/starparty>

### LIFE ON EARTH

#### Our Story in 1 Minute

<https://apod.nasa.gov/apod/ap171126.html>

13.8 billion years of history, set to music

#### Activity: Earth Timeline

[https://nightsky.jpl.nasa.gov/download-view.cfm?Doc\\_ID=477](https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=477)

What can the development of life on Earth tell us about the type of life we might find elsewhere?

### THE SEARCH FOR LIFE IN THE UNIVERSE

#### Astrobiology at NASA

<https://astrobiology.nasa.gov/>

Resources related to life in the universe

#### Ocean Worlds: Water in the Solar System and Beyond

<https://www.nasa.gov/specials/ocean-worlds/>

The story of oceans is the story of life.

#### Exoplanet Exploration

<https://exoplanets.nasa.gov/>

Learn about NASA's search for planets beyond our solar system.

#### NASA's Kepler and K2 missions

<http://kepler.nasa.gov/>

The Kepler space-based telescope has discovered thousands of exoplanets.

#### NASA's TESS mission

<https://tess.gsfc.nasa.gov/>

The Transiting Exoplanet Survey Satellite (TESS) will discover planets transiting the brightest and nearest stars.

#### Drake Equation

<http://www.pbs.org/lifebeyondearth/listening/drake.html>

This is a do-it-yourself online activity. Use the Drake Equation to estimate the number of communicative civilizations in the Milky Way Galaxy.

#### Activity and Powerpoint: Anyone Out There?

[https://nightsky.jpl.nasa.gov/download-view.cfm?Doc\\_ID=478](https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=478)

This is a facilitated activity for a group of visitors. Use the Drake Equation to estimate the number of communicative civilizations in the Milky Way Galaxy.

#### Voyager Golden Record

<https://voyager.jpl.nasa.gov/golden-record/>

NASA's Voyager 1 and 2 spacecraft carry a 12-inch phonograph record of sounds and images from Earth to communicate a story of our world to any extraterrestrials who may find these spacecraft in the distant future.

### CITIZEN SCIENCE

#### Backyard Worlds: The Search for Planet 9

<http://www.backyardworlds.org/>

Find new objects at the edge of our solar system in this citizen science project.

#### Planet Hunters

<https://www.planethunters.org/>

Discover new worlds in this citizen science project using data from NASA's Kepler spacecraft.

#### SETI@home

<https://setiathome.berkeley.edu/>

Use your computer to search for intelligent life beyond Earth by analyzing radio signals from space.

## SELECTED 2018 STAR PARTY ACTIVITIES: VIDEOS AND MATERIALS

*From NASA Night Sky Network in partnership with the Astronomical Society of the Pacific:*

### **Life in the Extreme**

[https://nightsky.jpl.nasa.gov/download-view.cfm?Doc\\_ID=480](https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=480)

### **How Do We Find Planets Around Other Stars?**

[https://nightsky.jpl.nasa.gov/download-view.cfm?Doc\\_ID=59](https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=59)

(Note: This field changes so fast that some of the information is out of date.)

*From National Informal STEM Education Network (NISE Net):*

### **Imagining Life**

<http://www.nisenet.org/catalog/exploring-universe-imagining-life>

### **Ice Orbs**

<http://www.nisenet.org/catalog/exploring-universe-ice-orbs>

*I believe alien life is quite common in the universe, although intelligent life is less so. Some say it has yet to appear on planet Earth.*

*- Stephen Hawking*



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