



# James Webb Space Telescope Activity Kit

**NORTHROP  
GRUMMAN**

# LISTEN

## NASA's Curious Universe Podcast



[NASA's Curious Universe Podcast](#)

In this four-part mini series from NASA's Curious Universe podcast, NASA speaks with Webb team members about Webb's science, engineering, people and launch. Tune in to hear more about how Webb will unlock new discoveries for humankind.

**PODCAST** Cost: FREE Time: 20 min.



# EXPLORE

## Webb Telescope Fun Pad



[Webb Telescope Fun Pad Download](#)

The Webb Telescope Fun Pad is filled with opportunities to draw and color while learning interesting facts about the Webb mission and related science. Interactive and informative, this Fun Pad has short activities that can be completed over time, with at least an hour of activity in the entire pad.

**ACTIVITY** Cost: FREE Time: 1 min. - 1 hour



# CREATE

## Webb Flip Book



[Webb Flip Book Download](#)

Webb had to be carefully folded to fit into a rocket for launch — and then, during its million-mile journey to Lagrange point 2, it had to unfold like a transformer! Using paper and a binder clip, this 48-frame flip book will show how Webb unfolds, which we call its deployment sequence, so you can watch Webb blossom in real-time.

**ACTIVITY** Cost: FREE Time: 15 min.



# WATCH

## 29 Days on the Edge



 [29 Days on the Edge Online Video](#)

Webb's launch marked a pivotal moment exemplifying the dedication, innovation and ambition behind NASA and its partners, and the 29 days following liftoff were an exciting but harrowing time. Thousands of parts had to work correctly, in sequence, to unfold the telescope, putting Webb in its final configuration while flying through space to its destination. Watch this short film to learn more about the technological marvel of Webb's deployment.

**VIDEO** Cost: FREE Time: 8 min.

# CREATE

## Webb Origami

 [Webb Origami Activity Download](#)

Channel your artistic inspiration while you create your own version of the telescope's primary mirror. Using paper and the directions provided, your family can fold and create your very own take on this elegant engineering marvel.

**ACTIVITY** Cost: FREE Time: 15 min.



# EXPLORE

## Scholastic's Gazing Across Galaxies

 [Gazing Across Galaxies Download](#)

Older students will enjoy learning more about how Webb is Gazing Across Galaxies in this Scholastic magazine. Read about scientists' exciting goals for Webb, including how it may help us understand the Big Bang and life on other planets, and meet members of the team who worked on Webb.

**ACTIVITY** Cost: FREE Time: 30 min.



# WATCH

## The Hunt for Planet B

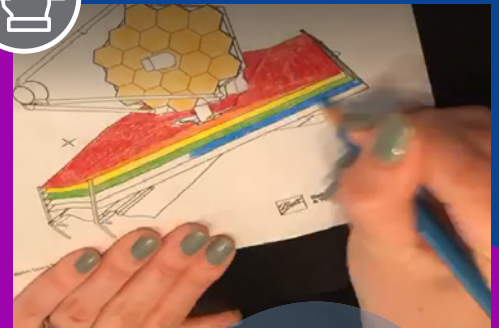


*The Hunt for Planet B* film takes us behind the scenes with Webb, following a pioneering group of scientists — many of them women — on their quest to find another Earth among the stars. You can buy *The Hunt for Planet B* as a virtual download for \$7.99 on Apple iTunes, Amazon Video, Google Play Movies or YouTube; rent it for \$3.99 on Google Play Movies, YouTube, Apple iTunes or Amazon Video.

**VIDEO** Cost: \$4.00 - \$8.00 Time: 1 hour 33 min.

# CREATE

## James Webb Space Telescope Coloring Page



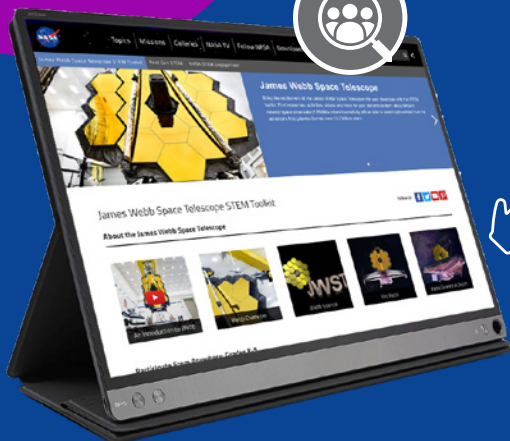
[James Webb Space Telescope Coloring Page Download](#)

Illustrate the universe! Use your colored pencils, crayons or markers to bring color to Webb as it explores the unknown, looking further into space than ever before.

**ACTIVITY** Cost: FREE Time: 1 min. - 1 hour

# EXPLORE

## Webb STEM Toolkit



[Webb STEM Toolkit Download](#)

Learn about NASA's newest space observatory through a variety of resources, activities, videos and more for students of all ages. Check out Webb-inspired art, learn about science topics like the electromagnetic spectrum, black holes and galaxies, and stay connected through Webb social media and images.

**ACTIVITY** Cost: FREE Time: Hours of Fun







# CREATE

## Build it Yourself Satellite



### [Build It Yourself Satellite Online Game](#)

Your family will have hours of fun engineering your own space telescope with this multi-level game. Choose what science your satellite will be used to study and the satellite's parameters and then, after launching your satellite, you'll see what it looks like. Plus, learn which real missions are gathering data similar to the satellite you created.

**ACTIVITY** Cost: FREE Time: Hours of Fun



# EXPLORE

## #UnfoldTheUniverse Webb Virtual Postcard



### [#UnfoldTheUniverse Webb Virtual Postcard](#)

Send a postcard to your friends to show them how Webb will unfold the universe. Download a digital or printable postcard and share a message of excitement as we prepare for Webb's first science to be revealed.

**ACTIVITY** Cost: FREE Time: 5 min.

