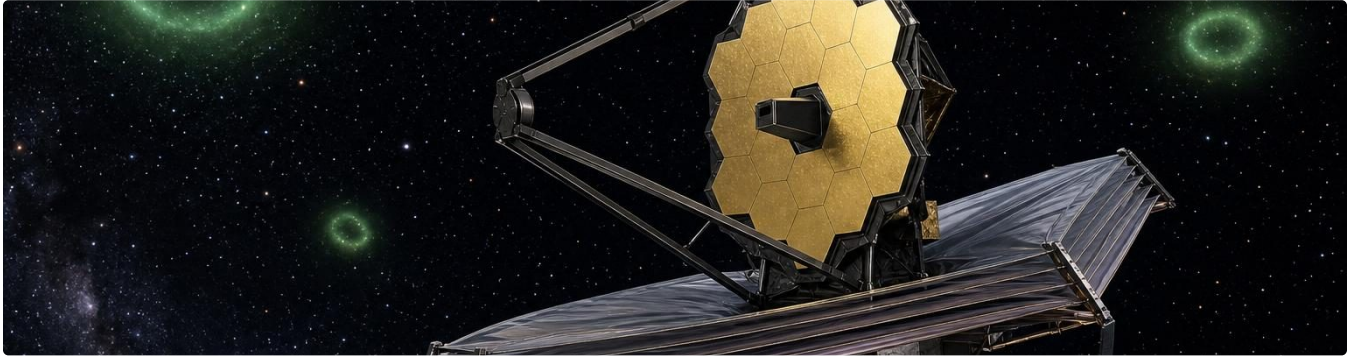


New NASA Telescope Opens Its Eyes in Space

Roman's first test image shows green rings now, but sharper sky pictures are expected after more checks.



A space telescope points toward green ring-shaped stars during its first test image in space.

NASA's Nancy Grace Roman Space Telescope has sent back its first test picture, according to Live Science, which reported on a NASA statement. The picture is not sharp yet. The stars look like bright green rings, almost like tiny doughnuts scattered across space.

That odd look is actually good news. Roman's big **camera** has turned on in space. Engineers, the people who build and test machines, are still focusing it. A test is like the first try with a new camera. You do not expect the perfect school photo on the first click.

Roman launched on Aug. 30. It is traveling toward a place in space called L2. That is a steady parking spot far from Earth. There, the pull of Earth and the sun can help hold a spacecraft in place. The James Webb Space Telescope also works near that area.

Roman's camera is called the Wide Field Instrument. It has 18 detectors. A **detector** is a part that catches light and changes it into information a computer can use. Together, they make a camera with 300 megapixels. A megapixel is a way to count tiny picture dots.

When Roman is ready, NASA expects its space pictures to be very sharp. They should be as detailed as pictures from the Hubble Space Telescope. But each

Roman picture will show a much bigger patch of sky. Live Science reported that one Roman image will cover 100 times more area than Hubble.

That matters because space is huge. Imagine searching a playground with a paper towel tube. Then imagine using a wide window. Roman is more like the wide window. It can help scientists study many stars and galaxies at once. A **galaxy** is a giant group of stars.

Roman may help answer big questions. Scientists want to learn how the **universe** is expanding, or spreading out. They also plan to look for exoplanets, which are planets outside our solar system. Roman has a tool that can block a star's bright light. That can make nearby planets easier to see.

For now, Roman is still getting ready. Scientists are checking its parts during a trip of about a million miles. The first green rings are not the final picture. They are more like a wink from a new telescope, saying its eyes are open.

Written from reporting by Live Science.

THINK IT THROUGH

1. Should NASA share early test pictures, even when they look strange and unfinished? Why or why not?

A strong answer: A strong answer weighs public excitement and learning against the risk that people may misunderstand an unfinished test.

2. Roman will see a much wider patch of sky than Hubble. What kinds of discoveries might a wide view help with most?

A strong answer: A strong answer connects a wide view to finding patterns, comparing many objects, or spotting rare things in a large area.

3. If you were planning a science tool, would you rather make it see one tiny thing very clearly or many things at once? Defend your choice.

A strong answer: A strong answer explains the trade-off between detail and coverage, using an example from space or everyday life.

New NASA Telescope Opens Its Eyes in Space

F O C U S N C C G A
R P L A N E T H N G
E R T N M O C F D E
D U N I V E R S E C
T T S S B N R H T T
S G N I E C N A E L
I T O L L A U N C H
V A T C F E D E T C
G A L A X Y C E O R
I A A S E N E E R S

CAMERA

DETECTOR

FOCUS

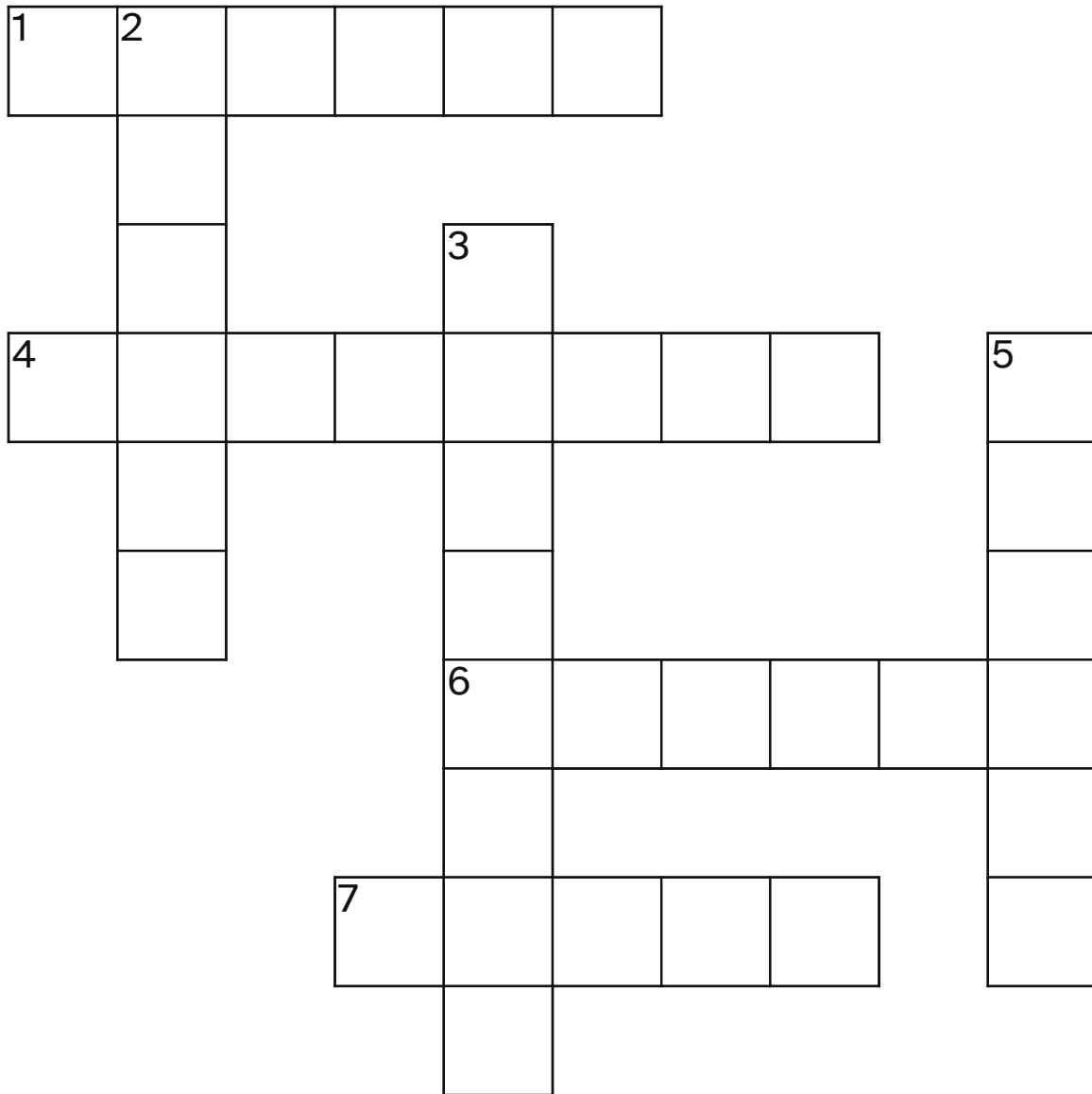
GALAXY

LAUNCH

PLANET

UNIVERSE

New NASA Telescope Opens Its Eyes in Space



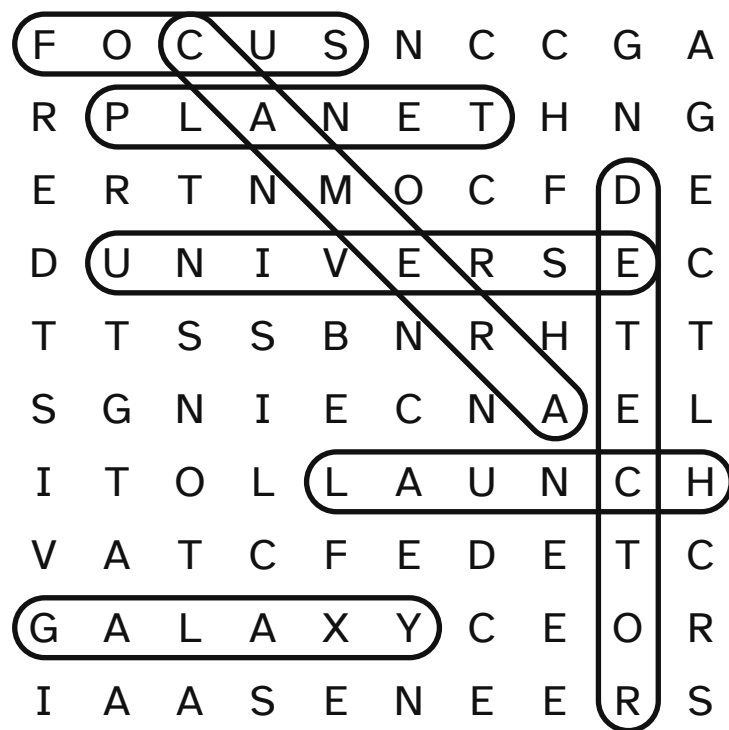
ACROSS

- 1 Large round world that moves around a star
- 4 All of space and everything in it
- 6 Device that collects light to take pictures
- 7 Adjust a lens to make a picture clear

DOWN

- 2 Send a rocket or spacecraft up from Earth
- 3 Machine part that changes light into information
- 5 Huge group of stars held together in space

New NASA Telescope Opens Its Eyes in Space — answer key



CAMERA

DETECTOR

FOCUS

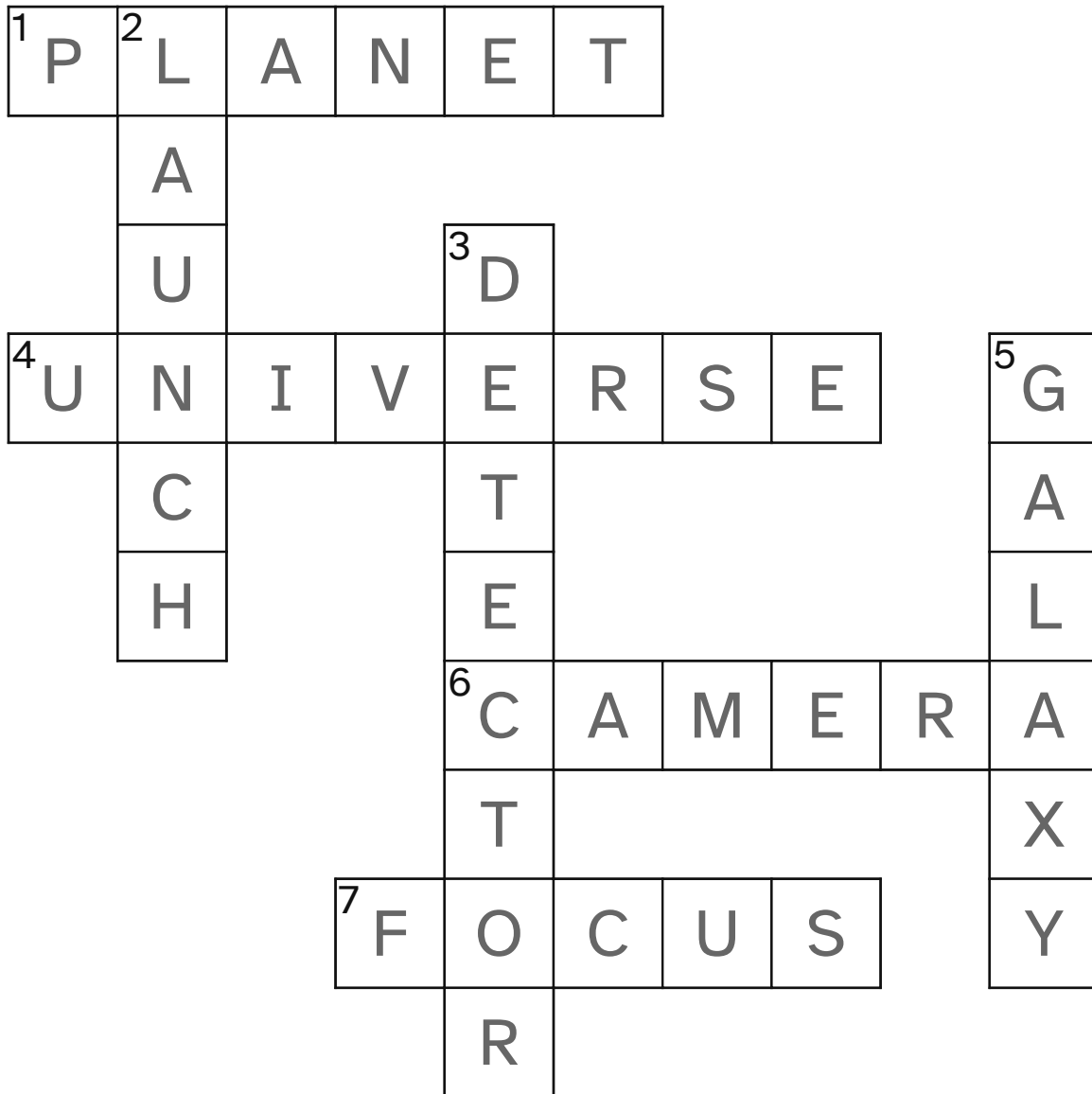
GALAXY

LAUNCH

PLANET

UNIVERSE

New NASA Telescope Opens Its Eyes in Space — answer key



ACROSS

- 1 Large round world that moves around a star
- 4 All of space and everything in it
- 6 Device that collects light to take pictures
- 7 Adjust a lens to make a picture clear

DOWN

- 2 Send a rocket or spacecraft up from Earth
- 3 Machine part that changes light into information
- 5 Huge group of stars held together in space

Where this came from

This article was written for 3andB from the reporting below. It is not a reprint — the wording is ours and the facts are theirs.

Live Science

"We are on our way to groundbreaking science': Stars turn neon-green in first test image from NASA's Roman telescope — Space photo of the week"

Published Sunday, September 20, 2026

Read by us on Monday, September 21, 2026

<https://www.livescience.com/space/astronomy/we-are-on-our-way-to-groundbreaking-science-stars-turn-neon-green-in-first-test-image-from-nasas-roman-telescope-space-photo-of-the-week>

WHAT IS IN THIS PACKET

The article with a note on each question, a word search, a crossword, and the answer key to both.

COPYING AND REUSE

Free to print, copy and hand out for classroom use. Please keep this page with the packet, so the next teacher can see where the story came from.

More where this came from

If this short lesson worked for your class, our full workbooks go further with the same care:

- Complete units with student and teacher editions
- Worked solutions for every exercise
- Standards-aligned, classroom-tested, print-ready

See the full lessons at 3andB.com