

# When Our Moon Passed in Front of Jupiter

A NASA image shows Earth's Moon and four of Jupiter's moons lined up in one night-sky view.



A crescent Moon appears below Jupiter and four small moons lined up in the night sky.

**A**ccording to NASA's Astronomy Picture of the Day, a sky view joined Earth's Moon with Jupiter and four of Jupiter's moons. The picture was made in Westchester, New York, after Earth's Moon moved directly in front of Jupiter last week.

In space, the objects were still very far apart. They only looked close from Earth. That is called an alignment, when things line up from one point of view. Think of holding your thumb in front of a faraway tree. Your thumb did not touch the tree. It only blocked your view.

The NASA image shows five moons in all. One is Earth's Moon. The other four circle Jupiter. **Orbit** means to travel around something in space. Their names are Ganymede, Io, Callisto, and Europa.

In the picture, Earth's Moon sits low on the left. Its bright **crescent** is **sunlit**. A crescent is the curved sliver shape you see when only part of the Moon looks bright. That bright part is overexposed. Overexposed means so bright in a photo that details get washed out.

The darker part of our Moon is not fully black. It is faintly lit by Earthshine, which is dim light from Earth. Above our Moon, the four moons of Jupiter appear in a nearly straight line. NASA lists them from bottom to top as Ganymede, Io, Callisto, and Europa.

The sizes may surprise people. Callisto, Ganymede, and Io are each larger than Earth's Moon. Europa is only a little smaller than Earth's Moon. From Earth, though, they look like tiny points of light near giant Jupiter.

The image was made from a series of exposures. An **exposure** is a photo that lets in light for a set time. Different exposures can help show bright and dim things in one scene. That matters because Earth's Moon and Jupiter's moons do not shine equally.

NASA also says its **robotic** spacecraft Juno is orbiting Jupiter now. A robotic spacecraft has no people on board. Juno has made close passes near three of these moons.

The picture matters because it shows how much depends on where you stand. A familiar Moon can seem to meet a faraway **planet**. A photograph can help people notice that the night sky is not flat. It is full of moving worlds, lined up for a moment from home.

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Written from reporting by NASA.

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## THINK IT THROUGH

### 1. Why might a photograph like this teach something that words alone might not?

**A strong answer:** A strong answer should discuss how images can show position, brightness, surprise, and scale, while also noting limits.

### 2. The moons looked close even though they were far apart. Where else can point of view change what something seems to be?

**A strong answer:** A strong answer should apply the idea of perspective to another real example and explain the connection.

### 3. Should science pictures show what our eyes would see, or show details our eyes might miss?

**A strong answer:** A strong answer should weigh the value of accuracy against the value of helping people notice hidden details.

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ALIGN

CRESCENT

EXPOSURE

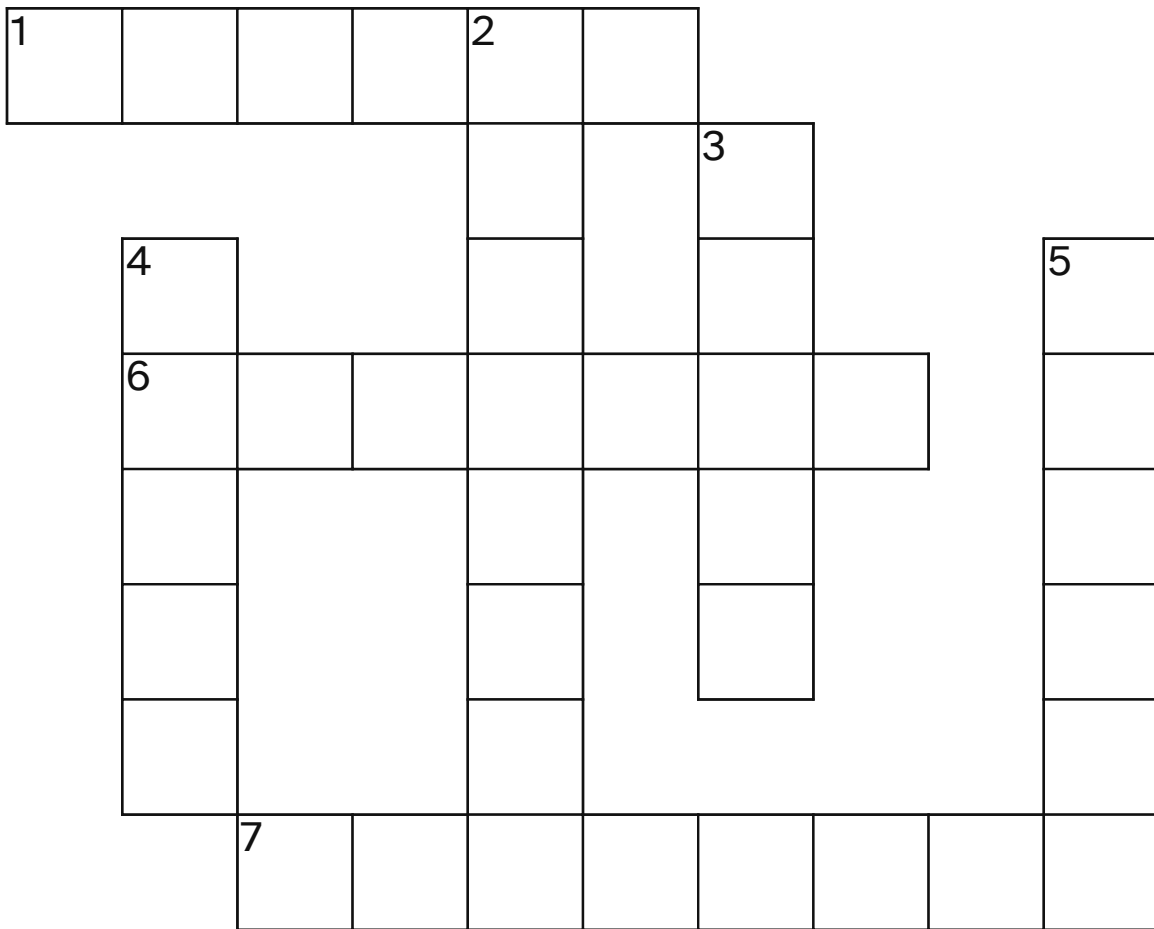
ORBIT

PLANET

ROBOTIC

SUNLIT

# When Our Moon Passed in Front of Jupiter



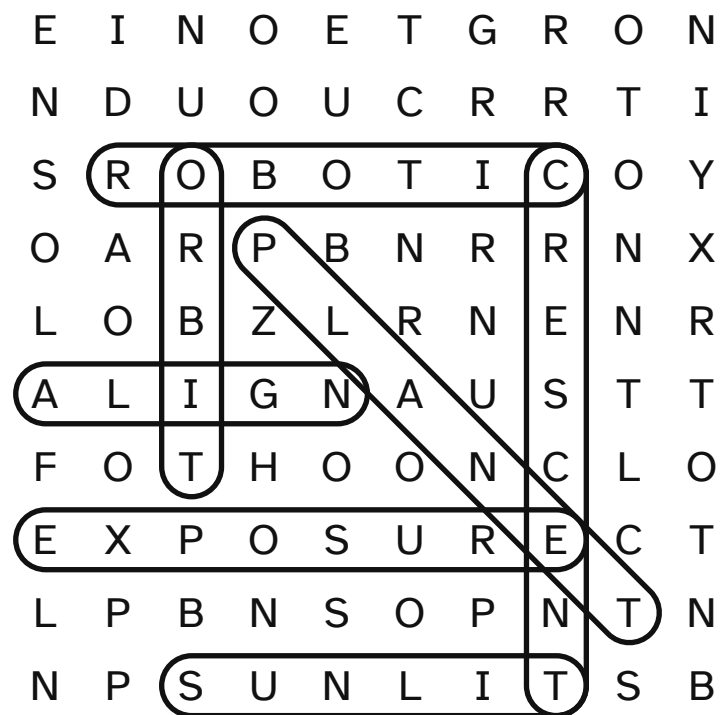
## ACROSS

- 1 Large round world that goes around a star
- 6 Able to work by machine or computer without people aboard
- 7 Thin curved shape of a partly bright round object

## DOWN

- 2 Camera picture made by letting light in for a set time
- 3 Form a straight row from one viewpoint
- 4 Travel around a bigger object in space
- 5 Made bright by light from our star

# When Our Moon Passed in Front of Jupiter — answer key



ALIGN

CRESCENT

EXPOSURE

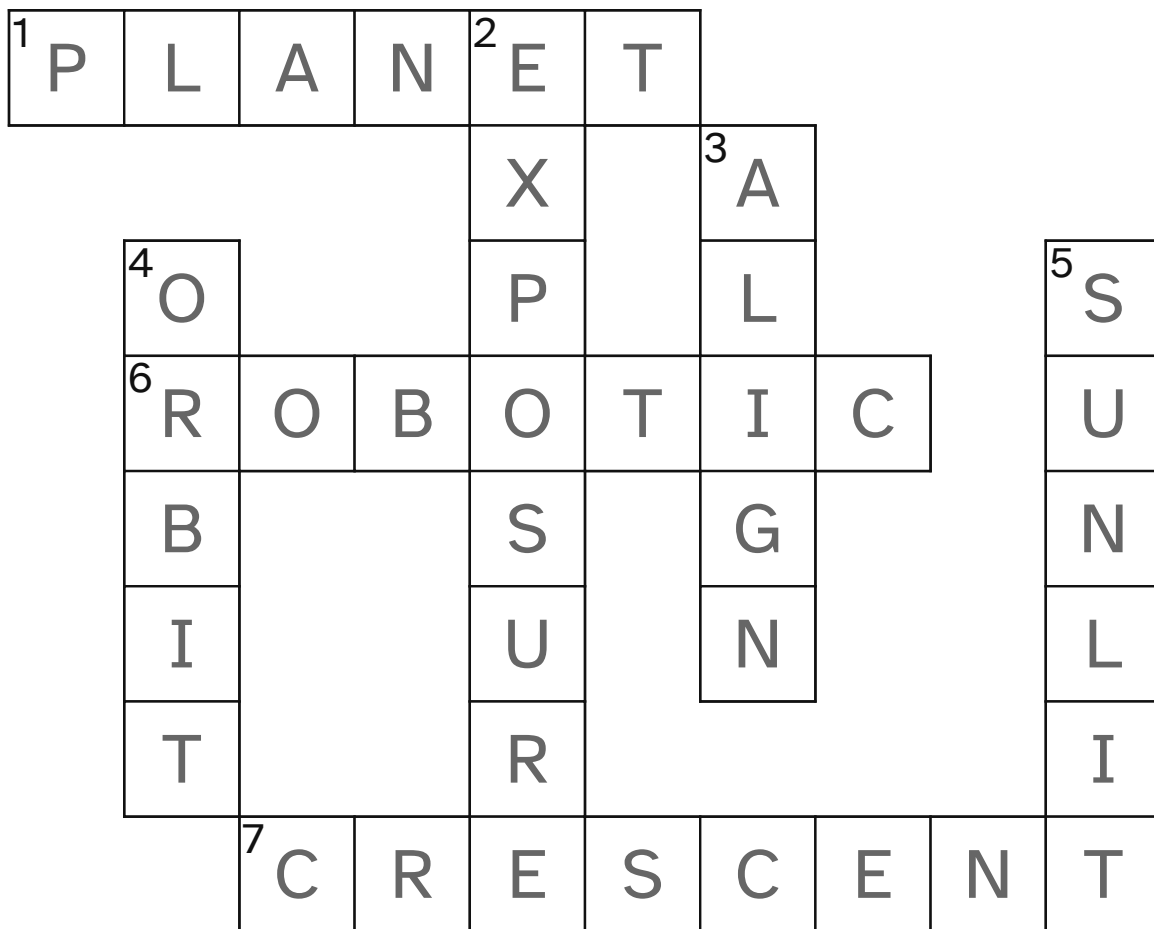
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## Where this came from

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

### NASA

“APOD: 2026 October 12 – Jupiter and the Moons”

Published Monday, October 12, 2026

Read by us on Monday, October 12, 2026

<https://science.nasa.gov/image-article/apod-2026-october-12-jupiter-and-the-moons/>

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

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