

12th February 2021 Science () World News ()

Searching for Aliens

Why is oxygen so important?

- Nearly all animals on Earth need to breathe oxygen to live.
- Plants and some bacteria produce oxygen so scientists think it could be a sign of life.

Photo: Could there be oxygen on exoplanets?

Could a Telescope Search for Aliens?

Is there alien life out in space? A new telescope from NASA could help find it!

NASA has been building a new telescope, called the James Webb Space Telescope. Scientists think it could help them search for signs of alien life!

They are looking at exoplanets. These are planets which orbit a star other than our Sun.

So far, all the exoplanets we have found are a long way away. They are too distant to send astronauts or spacecraft to them.

Researchers hope the new telescope will help them find out if there are aliens on these planets!

It should be able to find out if they have oxygen on them. Oxygen is a gas. On Earth, nearly all animals need to breathe oxygen to live.

It's also produced by plants and some bacteria. This means if there is oxygen on a planet, there might be living things as well.

These aliens probably won't be green people! Instead, they might be tiny bacteria. Scientists say that finding oxygen doesn't mean there definitely is alien life.

"We don't know if life is the only cause of oxygen in an atmosphere," NASA scientist Edward Schwieterman said.

The telescope can do more than search for aliens! It can study light from billions of light years away. This will help scientists learn more about what happened at the start of the universe.

Glossary

orbit	To travel around a star, sun or moon.
bacteria	Tiny living organisms you can only see through a microscope.
itmosphere	The gases which surround a planet.
light years	The distance light travels in one year, about 6 trillion miles.

- 1. Can you identify the Headline?
- 2. '*They are too distant to send astronauts or spacecraft to them.*' Which word or phrase is closest in meaning to 'distant' in this sentence.
 - Cold
 - Difficult
 - Dangerous
 - Far away
- 3. Why is oxygen so important?
- 4. Find 2 things listed that produce oxygen
- 5. Find one reason why scientists might be excited by this telescope.
- 6. Write down the quote used within the newspaper article.
- 7. 'Scientists say that finding oxygen doesn't mean there definitely is alien life.' Which word is closest in meaning to 'definitely' in this sentence.
 - Certainly
 - Maybe
 - Possible
 - Probably
- 8. What can the telescope do as well as search for aliens?
- 9. Do you think scientists will ever find aliens? Explain your answer.
- 10. Summarise this news story in 20 words or fewer.

Write a list of any other words within the text you aren't sure of and look up their meaning, creating your own glossary here.