

## **K2-18b - Is There Life Beyond Earth?**



### **Vocabulary Exercises**

*A. Match the words with their meanings:*

Scientist  
Planet  
Far away  
Water  
Gas  
Life  
Telescope

- a. A tool to look at stars
- b. Not near
- c. A round object in space
- d. A person who studies science
- e. A thing we drink
- f. What people, animals, and plants have
- g. Air-like substance

*B. Complete the sentences with the words from A:*

Earth is a \_\_\_\_\_.

A \_\_\_\_\_ helps us see far into space.

We need \_\_\_\_\_ to live.

A \_\_\_\_\_ studies stars and planets.

Plankton is a kind of small \_\_\_\_\_ form.

The planet is very \_\_\_\_\_ from us.

Scientists found a special \_\_\_\_\_ in the air.

*C. Find the Odd Word Out*

In each group of four words, one doesn't belong. Which one is it?

- 1. telescope – moon – star – planet
- 2. gas – air – plankton – oxygen
- 3. scientist – teacher – student – building
- 4. Earth – Mars – Saturn – spaceship
- 5. space – rocket – moon – astronaut

## Listening

*Complete the gaps with one word.*

### Possible Life Found on Planet K2-18b

Scientists have found something (1) ..... They looked at a (2) ..... called K2-18b. It is far away from Earth. It is 120 light years away!

This planet is in the "habitable zone." That means it is not too (3) ..... or too cold. It may have (4) ..... This is important because water helps life grow.

(5) ..... used a big telescope in space to look at the planet's air. They found a gas called dimethyl sulfide. On (6)

....., this gas only comes from living things like plankton.

We do not know if there is (7) ..... on K2-18b. But the gas is a big clue. Scientists want to (8) ..... more. Maybe one day, we will find life on another planet!

## True or False

*Are the following statements true or false? Remember to correct the false ones.*

1. K2-18b is close to Earth.
2. Water is important for life.
3. The planet is too hot to live on.
4. Scientists found a gas from living things.
5. Plankton lives in the sea.
6. The gas is proof of life on the planet.
7. Scientists used a telescope to study the planet.

## Discussion Questions

1. Do you believe there is life on other planets?
2. Would you like to go to space?
3. Why is water important?
4. What do scientists do?
5. What do you know about planets?
6. Do you think we will find aliens?
7. What questions do you have about space?

Sources:

- <https://apnews.com/article/exoplanet-k2-18b-webb-telescope-2e84374e42768080a971e1d5368f0543>
- [https://www.nasa.gov/universe/exoplanets/webb-discovers-methane-carbon-dioxide-in-atmosphere-of-k2-18-b/?utm\\_source=chatgpt.com](https://www.nasa.gov/universe/exoplanets/webb-discovers-methane-carbon-dioxide-in-atmosphere-of-k2-18-b/?utm_source=chatgpt.com)

## **K2-18b - Is There Life Beyond Earth?**



### **Introduction**

Introduce the topic of space and planets, ask for vocabulary that the students know. You can also browse our other space related worksheets for into ideas.

### **Vocabulary Exercises**

*A. Match the words with their meanings:*

Scientist - d. A person who studies science

Planet - c. A round object in space

Far away - b. Not near

Water - e. A thing we drink

Gas - g. Air-like substance

Life - f. What people, animals, and plants have

Telescope - a. A tool to look at stars

*B. Complete the sentences with the words from A:*

Earth is a **planet**.

A **telescope** helps us see far into space.

We need **water** to live.

A **scientist** studies stars and planets.

Plankton is a kind of small **life** form.

The planet is very **far away** from us.

Scientists found a special **gas** in the air.

*C. Find the Odd Word Out*

In each group of four words, one doesn't belong. Which one is it?

1. **telescope** – moon – star – planet

2. gas – air – **plankton** – oxygen

3. scientist – teacher – student – **building**

4. Earth – Mars – Saturn – **spaceship**

5. space – rocket – moon – **astronaut**

## Listening

*Complete the gaps with one word.*

### Possible Life Found on Planet K2-18b

Scientists have found something **(1) exciting**. They looked at a **(2) planet** called K2-18b. It is far away from Earth. It is 120 light years away! This planet is in the "habitable zone." That means it is not too **(3) hot** or too cold. It may have **(4) water**. This is important because water helps life grow.

**(5) Scientists** used a big telescope in space to look at the planet's air. They found a gas called dimethyl sulfide. On **(6) Earth**, this gas only comes from living things like plankton.

We do not know if there is **(7) life** on K2-18b. But the gas is a big clue. Scientists want to **(8) study** more. Maybe one day, we will find life on another planet!

### True or False

1. K2-18b is close to Earth. - FALSE
2. Water is important for life. - TRUE
3. The planet is too hot to live on. - FALSE
4. Scientists found a gas from living things. - TRUE
5. Plankton lives in the sea. - TRUE
6. The gas is proof of life on the planet. - TRUE
7. Scientists used a telescope to study the planet. - TRUE

### Discussion Questions

1. Do you believe there is life on other planets?
2. Would you like to go to space?
3. Why is water important?
4. What do scientists do?
5. What do you know about planets?
6. Do you think we will find aliens?
7. What questions do you have about space?

Sources:

- <https://apnews.com/article/exoplanet-k2-18b-webb-telescope-2e84374e42768080a971e1d5368f0543>
- [https://www.nasa.gov/universe/exoplanets/webb-discovers-methane-carbon-dioxide-in-atmosphere-of-k2-18-b/?utm\\_source=chatgpt.com](https://www.nasa.gov/universe/exoplanets/webb-discovers-methane-carbon-dioxide-in-atmosphere-of-k2-18-b/?utm_source=chatgpt.com)