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# **Level 6** - 21st April 2025

## Scientists find possible alien life in outer space

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https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html

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## Please try Levels 4 and 5 (they are easier).

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#### THE ARTICLE

From https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html

Scientists are a step closer to providing an affirmative answer to the question "Are we alone?" For centuries, astronomers have been observing the heavens for signs of extraterrestrial life. Earlier this week, a team of astronomers announced they had detected a chemical that provides the conditions for life forms. Astrophysicist Dr Nikku Madhusudhan from the University of Cambridge's Institute of Astronomy announced the existence of two chemicals called DMS and DMDS. These are "biosignatures" - the potential fingerprints of life. On Earth, these are only produced by microorganisms, such as plankton. The astronomers said the chemicals are "the most promising signs yet" of life.

The two biosignatures were discovered on a planet called K2-18b. This is about 124 light years from Earth. One light year is approximately 9.46 trillion km. Dr Madhusudhan speculated that the planet is a Hycean world. This is a potentially habitable planet covered in liquid water with an abundance of hydrogen. He said: "Given everything we know about [the planet K2-18b], a Hycean world with an ocean that is teeming with life is the scenario that best fits the data we have." However, he stopped short of stating that life exists on the planet. He said he was 99.7% sure that his findings did not occur by chance, but needed to be 99.99994% certain to state as fact that we are not alone.

Sources: https://edition.cnn.com/2025/04/17/science/k218b-potential-biosignature-webb/index.html

https://www.space.com/the-universe/exoplanets/possible-signs-of-alien-life-found-on-nearby-

exoplanet-study-reports

https://www.skyatnightmagazine.com/news/k2-18b-dimethyl-sulfide

#### **WARM-UPS**

- **1. ALIEN LIFE:** Students walk around the class and talk to other students about alien life. Change partners often and share your findings.
- **2. CHAT:** In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

scientists / answers / questions / being alone / astronomers / chemicals / plankton / planet / light years / habitable / water / hydrogen / teeming with life / data / chance

Have a chat about the topics you liked. Change topics and partners frequently.

- **3. ALIENS ON EARTH:** Students A **strongly** believe we should bring alien life to Earth; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.
- **4. PLANETS:** What do you know about these planets? What do you want to know? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	What I Want to Know
K2-18b		
Mars		
Mercury		
Saturn		
Venus		
Neptune		

- **5. ALONE:** Spend one minute writing down all of the different words you associate with the word "alone". Share your words with your partner(s) and talk about them. Together, put the words into different categories.
- **6. LIFE FORMS:** Rank these with your partner. Put the best life forms at the top. Change partners often and share your rankings.

Roses

Plankton

EaglesWhales

Bamboo

Tigers

Elephants

Bees

### **VOCABULARY MATCHING**

#### Paragraph 1

- 1. affirmative a. The state of being real or being alive.
- 2. astronomer b. A person who studies the stars, planets, and space.
- 3. the heavens c. Coming from outside Earth; from space.
- 4. extraterrestrial d. Saying "yes" or showing agreement.
- 5. detected e. Very small microscopic life forms that live in water.
- 6. existence f. The sky, especially the part with stars and planets.
- 7. plankton g. Found or saw something that was hard to see.

#### Paragraph 2

- 8. speculated h. Full of many living things.
- 9. habitable i. A large amount of something.
- 10. abundance j. Almost did something, but didn't do it.
- 11. teeming k. Thought about something that might be true.
- 12. scenario I. Good for people or animals to live in.
- 13. stopped short of m. The things you learn or discover after studying something.
- 14. findings n. A possible story or situation.

## **BEFORE READING / LISTENING**

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

#### **1. TRUE / FALSE:** Read the headline. Guess if a-h below are true (T) or false (F).

- 1. Scientists now have a definite answer to whether or not we are alone. T / F
- 2. Scientists found chemicals on Earth that came from a distant planet. T / F
- 3. An astrophysicist said the chemicals were potential fingerprints of life. T / F
- 4. The astrophysicist said there is a lot of plankton in space. **T/F**
- 5. The planet K2-18b is 9.46 trillion km from Earth. **T/F**
- 6. The plant K2-18b could be covered in liquid water and hydrogen. **T / F**
- 7. The astrophysicist stated that there was definitely life other planets. **T / F**
- 8. The astrophysicist needs a little more proof to be sure we are not alone. **T / F**

#### **2. SYNONYM MATCH:** (The words in **bold** are from the news article.)

- 1. affirmative
- 2. the heavens
- 3. detected
- 4. potential
- 5. promising
- 6. approximately
- 7. teeming
- 8. habitable
- 9. abundance
- 10. occur

- a. liveable
- b. possible
- c. happen
- d. space
- e. roughly
- f. profusion
- g. positive
- h. encouraging
- i. brimming
- i. found

#### **3. PHRASE MATCH:** (Sometimes more than one choice is possible.)

- 1. a step closer to providing
- 2. astronomers have been
- 3. a chemical that provides the conditions
- 4. the potential fingerprints
- 5. the most promising
- 6. One light year is
- 7. This is a potentially habitable
- 8. an ocean that is teeming
- 9. he stopped short of
- 10. occur by

- a. signs yet of life
- b. for life forms
- c. stating that
- d. with life
- e. of life
- f. observing the heavens
- g. approximately 9.46 trillion km
- h. chance
- i. an affirmative answer
- j. planet

## **GAP FILL**

Scientists are a (1) closer to providing an	heavens
affirmative answer to the question "Are we alone?" For	potential
(2), astronomers have been observing the	step
gain for signs of extraterrestrial life. Earlier this week, a team of astronomers announced they had	existence
a chemical that provides the conditions for	promising
life forms. Astrophysicist Dr Nikku Madhusudhan from the	centuries
University of Cambridge's Institute of Astronomy announced the	plankton
of two chemicals called DMS and DMDS.  These are "biosignatures" - the (6) fingerprints	detected
of life. On Earth, these are only produced by microorganisms,	
such as (7) The astronomers said the	
chemicals are "the most (8) signs yet" of life.	
The two biosignatures were (9) on a planet	approximately
called K2-18b. This is about 124 light years from Earth. One	fits
light year is (10) 9.46 trillion km. Dr	habitable
Madhusudhan (11) that the planet is a Hycean	
world. This is a potentially (12) planet covered	state
in liquid water with an (13) of hydrogen. He	discovered
said: "Given everything we know about [the planet K2-18b], a	short
Hycean world with an ocean that is teeming with life is the	speculated
scenario that best (14) the data we have."	abundance
However, he stopped (15) of stating that life	abunuance
exists on the planet. He said he was 99.7% sure that his	
findings did not occur by chance, but needed to be 99.99994%	
certain to (16) as fact that we are not alone.	

# **LISTENING** — Guess the answers. Listen to check.

1)	Scientists are a step closer to providing  a. an informative answer  b. an affirmation answer
	c. an affirmative answer
	d. an affirm native answer
2)	detected a chemical that provides the conditions
	a. for life orbs
	<ul><li>b. for life firms</li><li>c. for life farms</li></ul>
	d. for life forms
3)	These are "biosignatures" - the potential
٠,	a. fingered prints of life
	b. fingers print of life
	c. fingerprints of life
	d. fingers prints of life
4)	On Earth, these are only produced by microorganisms,
	<ul><li>a. such has plankton</li><li>b. such is plankton</li></ul>
	c. such was plankton
	d. such as plankton
5)	The astronomers said the chemicals are "the most promising signs
	a. yet" of live
	<ul><li>b. yet" of lifer</li><li>c. yet" of life</li></ul>
	d. yet of file
6)	a potentially habitable planet covered in liquid water with an
٠,	a. abundance off hydrogen
	b. abundance of hydrogen
	c. abundance oft hydrogen
	d. abundance soft hydrogen
7)	the planet K2-18b, a Hycean world with an ocean that is
	a. teeming with life
	<ul><li>b. teaming with life</li><li>c. taming with life</li></ul>
	d. terming with life
8)	However, he stopped short of stating
,	a. that life exists
	b. that life exacts
	c. that life exits
٥١	d. that life desists
9)	He said he was 99.7% sure that his findings did nota. recur by chance
	b. occur by chance
	c. occult by chance
	d. occurrence by chance
10)	) but needed to be 99.99994% certain to state as fact that we
	a. are not a lone
	b. are not alone
	<ul><li>c. are not alone</li><li>d. are not lonely</li></ul>
	a. a

# **LISTENING** – Listen and fill in the gaps

Scientists are a step (1)	an affirmative answer
to the question "Are we alone	e?" For centuries, astronomers have been
(2)	for signs of extraterrestrial life. Earlier this
week, a team of	astronomers announced they had
(3)	that provides the conditions for life forms.
Astrophysicist Dr Nikku Madhus	sudhan from the University of Cambridge's
Institute of Astronomy annou	nced (4) two
chemicals called DMS and DMD	S. These are "biosignatures" - the potential
(5)	. On Earth, these are only produced by
microorganisms, such as plankto	on. The astronomers said the chemicals are
"the most (6)	" of life.
The two biocianatures as	a planet called 1/2
The two biosignatures (7)	a planet called K2-
18b. This is about 124 ligh	t years from Earth. One light year is
approximately 9.46 t	rillion km. Dr Madhusudhan
(8)	_ planet is a Hycean world. This is a
potentially habitable plane	t covered in liquid water with
(9)	hydrogen. He said: "Given everything we
know about [the planet K2-18	Bb], a Hycean world with an ocean that
(10)	life is the scenario that best fits the data
we have." However, he stopped	that life
exists on the planet. He said he	e was 99.7% sure that his findings did not
occur by chance, bu	t needed to be 99.99994%
(12)	as fact that we are not alone.

# **COMPREHENSION QUESTIONS**

1.	For how long have astronomers been looking for alien life?
2.	What is Dr Nikku Madhusudhan's specialty?
3.	What does the article say "biosignatures" are?
4.	What microorganism is mentioned in the article?
5.	What are the two chemicals a promising sign of?
6.	How far away is the planet K2-18b from Earth?
7.	What is a Hycean world covered in?
8.	What is teeming with life in a Hycean world?
9.	What did Dr Nikku Madhusudhan stop short of stating?
10.	How sure is Dr Nikku Madhusudhan that life exists in space?

## **MULTIPLE CHOICE - QUIZ**

From https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html

- 1) For how long have astronomers been looking for alien life?
- a) millennia
- b) decades
- c) centuries
- d) many, many years
- 2) What is Dr Nikku Madhusudhan's specialty?
- a) astrophysics
- b) quantum physics
- c) geophysics
- d) nuclear physics
- 3) What does the article say "biosignatures" are?
- a) fake
- b) potential fingerprints of life
- c) strings of DNA
- d) the key to the meaning of life
- 4) What microorganism is mentioned in the article?
- a) a virus
- b) fungi
- c) bacteria
- d) plankton
- 5) What are the two chemicals a promising sign of?
- a) time travel
- b) nuclear fusion
- c) the end of climate change
- d) life on other planets

- 6) How far away is the planet K2-18b from Earth?
- a) exactly 124 light years
- b) about 124 light years
- c) more than 124 light years
- d) just less than 124 light years
- 7) What is a Hycean world covered in?
- a) dust
- b) lava
- c) rock
- d) water
- 8) What is teeming with life in a Hycean world?
- a) ice
- b) oceans
- c) underground craters
- d) the air
- 9) What did Dr Nikku Madhusudhan stop short of stating?
- a) how black holes started
- b) life exists on other planets
- c) what aliens look like
- d) the meaning of life
- 10) How sure is Dr Nikku Madhusudhan that life exists in space?
- a) 99.7%
- b) 99.6%
- c) 99.5%
- d) 99.4%

#### **ROLE PLAY**

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

#### Role A – Roses

You think roses are the best forms of life on Earth. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least interesting of these (and why): bamboo, plankton or bees.

#### Role B - Bamboo

You think bamboo is the best forms of life on Earth. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least interesting of these (and why): roses, plankton or bees.

#### Role C - Plankton

You think plankton is the best forms of life on Earth. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least interesting of these (and why): bamboo, roses or bees.

#### Role D - Bees

You think bees are the best forms of life on Earth. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least interesting of these (and why): bamboo, plankton or roses.

## AFTER READING / LISTENING

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

**1. WORD SEARCH:** Look online / in your dictionary to find collocates, information on, synonyms for... the words 'alien' and 'space'.

alien	space

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.
- **2. ARTICLE QUESTIONS:** Look back at the article and write down some questions you would like to ask the class about the text.
  - Share your questions with other classmates / groups.
  - Ask your partner / group your questions.
- **3. GAP FILL:** In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?
- **4. VOCABULARY:** Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.
- **5. TEST EACH OTHER:** Look at the words below. With your partner, try to recall how they were used in the text:

<ul><li>step</li><li>earlier</li><li>conditions</li></ul>	<ul><li>years</li><li>covered</li><li>know</li></ul>
<ul><li>potential</li></ul>	teeming
• such	• short
<ul><li>promising</li></ul>	• chance

### **ALIEN LIFE SURVEY**

From https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html

Write five GOOD questions about alien life in the table. Do this in pairs. Each student must write the questions on his / her own paper.
When you have finished, interview other students. Write down their answers.

	STUDENT 1	STUDENT 2	STUDENT 3
	3.32LIVI 1	3.35211.2	3.322.11.3
Q.1.			
Q.2.			
0.2			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

#### **ALIEN LIFE DISCUSSION**

STUDENT A's QUESTIONS (Do not show these to student B)

- 1. What did you think when you read the headline?
- 2. What images are in your mind when you hear the word 'alien'?
- 3. Do you think we are alone?
- 4. What do you think of astronomy?
- 5. What do you think extraterrestrial life looks like?
- 6. What would happen if aliens visited Earth?
- 7. Should we bring alien life back to Earth?
- 8. How would our life change if we discovered aliens?
- 9. What do you know about plankton?
- 10. What's your favourite alien movie?

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## **ALIEN LIFE DISCUSSION**

STUDENT B's QUESTIONS (Do not show these to student A)

- 11. Did you like reading this article? Why/not?
- 12. What do you think of when you hear the word 'outer space'?
- 13. What do you think about what you read?
- 14. Why do you think they called a planet K2-18b?
- 15. How many habitable worlds do you think there are?
- 16. How amazing is the life on Earth?
- 17. What dangers might aliens pose to us?
- 18. Would the discovery of alien life be the biggest news ever?
- 19. What would aliens think of our planet?
- 20. What questions would you like to ask an alien?

# **DISCUSSION** (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1.	
2	
2.	
3.	
4.	
5.	
6.	
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<u>STU</u>	SCUSSION (Write your own questions)  DENT B's QUESTIONS (Do not show these to student A)
<u>STU</u> 1.	SCUSSION (Write your own questions)
<u>STU</u> 1. 2.	SCUSSION (Write your own questions)
<u>STU</u> 1.	SCUSSION (Write your own questions)
<u>STU</u> 1. 2.	SCUSSION (Write your own questions)
1. 2. 3.	SCUSSION (Write your own questions)

# **LANGUAGE - CLOZE**

"Are sign they Astrof A Thes proceed the light	we as of each ophysistrone are luced micals	are a step clos alone?" For cen extraterrestrial detected a sicist Dr Nikku l omy announce by microorga are "the most siosignatures we rs from Earth.	turies, life. E chemi Madhud the s" - the anisms (6)ere dis One	arlier this we cal that (3) sudhan from (4) of the potential (5), such as particles, signs yet covered on a light year is	the U two cl olankt of life.	team of astro the conditioniversity of Canemicals called of life. On Eastron. The astron. The astron.	ng the nome on the nome of the	e (2) forms announced for life forms dge's Institute S and DMDS these are only ters said the sis about 124 fillion km. D
		lhan (7)		-	=			-
"Giv	en ev	olanet covered verything we k ot is teeming (9	now a	bout [the pla	net K	2-18b], a Hyd	cean	world with ar
		wever, he stop						
		as 99.7% sure	•		_			•
99.9	9994	% certain to (12	!)	$_{ extstyle }$ as fact that $ extstyle $	we are	not alone.		
Put	the c	orrect words	from	the table bel	ow in	the above a	rticle	·-
1.	(a)	at	(b)	to	(c)	for	(d)	of
2.	(a)	heaven-sent	(b)	heaven	(c)	heavenly	(d)	heavens
3.	(a)	spreads	(b)	provides	(c)	understands	(d)	posits
4.	(a)	resistance	(b)	stance	(c)	existence	(d)	distance
5.	(a)	fingerprints	(b)	footprints	(c)	hoofprints	(d)	paw prints
6.	(a)	promising	(b)	promissory	(c)	promised	(d)	promises
7.	(a)	speculative	(b)	speculating	(c)	speculate	(d)	speculated
8.	(a)	habitable	(b)	habitat	(c)	habitation	(d)	habits
9.	(a)	at	(b)	with	(c)	by	(d)	of
10.	(a)	suggests	(b)	postulates	(c)	fits	(d)	enhances
11.	(a)	miniscule	(b)	small	(c)	short	(d)	tiny
12.	(a)	smite	(b)	state	(c)	mute	(d)	elate

### **SPELLING**

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

### Paragraph 1

- 1. providing an <u>mtarefaifvi</u> answer
- 2. <u>berongisv</u> the heavens
- 3. cposrsatysihti Dr Nikku Madhusudhan
- 4. institute of yonsratom
- 5. the pliontaet fingerprints of life
- 6. <u>isgooacirnmmsr</u>, such as plankton

## Paragraph 2

- 7. <u>asoegbsiuinrt</u> were discovered
- 8. <u>arxpepymlitao</u> 9.46 trillion km
- 9. <u>eleaspcdtu</u> that the planet is a Hycean world
- 10. <u>hleataibb</u> planet
- 11. ienetmg with life
- 12. the <u>aecsoinr</u> that best fits the data

## **PUT THE TEXT BACK TOGETHER**

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

#### Number these lines in the correct order.

(	)	a Hycean world. This is a potentially habitable planet covered in liquid water with an abundance of
(	)	as plankton. The astronomers said the chemicals are "the most promising signs yet" of life.
(	)	centuries, astronomers have been observing the heavens for signs of extraterrestrial life. Earlier this week, a team
(	)	chance, but needed to be 99.99994% certain to state as fact that we are not alone.
(	)	existence of two chemicals called DMS and DMDS. These are "biosignatures" - the potential
(	)	fingerprints of life. On Earth, these are only produced by microorganisms, such
(	)	forms. Astrophysicist Dr Nikku Madhusudhan from the University of Cambridge's Institute of Astronomy announced the
(	)	hydrogen. He said: "Given everything we know about [the planet K2-18b], a Hycean world with an ocean that is teeming
(	)	of astronomers announced they had detected a chemical that provides the conditions for life
(	1 )	Scientists are a step closer to providing an affirmative answer to the question "Are we alone?" For
(	)	short of stating that life exists on the planet. He said he was $99.7\%$ sure that his findings did not occur by
(	)	The two biosignatures were discovered on a planet called K2-18b. This is about 124 light
(	)	with life is the scenario that best fits the data we have." However, he stopped
(	)	years from Earth. One light year is approximately 9.46 trillion km. Dr Madhusudhan speculated that the planet is

#### PUT THE WORDS IN THE RIGHT ORDER

- 1. Scientists a are closer step to answers providing .
- 2. Observing signs life for of extraterrestrial the heavens .
- 3. A conditions that the provides chemical for life .
- 4. He of chemicals two the existence announced the .
- 5. On microorganisms are these by only produced Earth , .
- 6. The biosignatures discovered a planet on were two .
- 7. A planet habitable water in liquid potentially covered .
- 8. A teeming ocean life an world with with .
- 9. He of short stating stopped life that exists .
- 10. State alone that are we fact not as .

# **CIRCLE THE CORRECT WORD (20 PAIRS)**

From https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html

Scientists are a *step / stair* closer to providing an affirmative *answer / solution* to the question "Are we alone?" For centuries, astronomers have been *reserving / observing* the heavens for signs of extraterrestrial life. Earlier this week, a team of astronomers announced they had *defected / detected* a chemical that provides the conditions for *life / live* forms. Astrophysicist Dr Nikku Madhusudhan from the University of Cambridge's Institute of Astronomy announced *an / the* existence of two chemicals called DMS and DMDS. These are "biosignatures" - the *potent / potential* fingerprints of life. On Earth, these are *only / once* produced by microorganisms, such *was / as* plankton. The astronomers said the chemicals are "the most promising *sighs / signs* yet" of life.

The two biosignatures were discovered *in / on* a planet called K2-18b. This is about 124 *light / lightning* years from Earth. One light year is *appropriately / approximately* 9.46 trillion km. Dr Madhusudhan speculated that the planet is a Hycean world. This is a potentially *hospitable / habitable* planet covered in liquid water with an abundance *on / of* hydrogen. He said: "Given everything we know about [the planet K2-18b], a Hycean world with an ocean that is *teaming / teeming* with life is the scenario that best *abets / fits* the data we have." However, he stopped *short / long* of stating that life exists on the planet. He said he was 99.7% *sure / assure* that his findings did not occur by chance, but needed to be 99.99994% certain to state as fact that we are not *alone / lonely*.

Talk about the connection between each pair of words in italics, and why the correct word is correct. Look up the definition of new words.

## **INSERT THE VOWELS (a, e, i, o, u)**

From https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html

Sc\_\_nt\_sts \_r\_ \_ st\_p cl\_s\_r t\_ pr\_v\_d\_ng \_n \_ff\_rm\_t\_v\_ \_\_nsw\_r t\_ th\_ q\_\_st\_\_n "\_r\_ w\_ \_\_l\_n\_?" F\_r c\_nt\_r\_s, \_str\_n\_m\_rs h\_v\_ b\_\_n \_\_bs\_rv\_ng th\_ h\_\_v\_ns f\_r s\_gns \_f \_xtr\_t\_rr\_str\_\_l l\_f\_. \_\_rl\_\_r th\_s w\_\_k, \_ t\_\_m \_\_f \_\_str\_n\_m\_rs \_\_nn\_\_nc\_d th\_y h\_\_d d\_t\_ct\_d \_ ch\_m\_c\_l th\_t pr\_v\_d\_s th\_ c\_nd\_t\_\_ns f\_r l\_f\_ f\_rms. \_str\_phys\_c\_st Dr N\_kk\_ M\_dh\_s\_dh\_n fr\_m th\_\_ \_n\_v\_rs\_ty \_f C\_mbr\_dg\_'s \_\_nst\_t\_t\_ \_ f \_\_str\_n\_my \_nn\_\_nc\_d th\_\_ \_x\_st\_nc\_ \_ f tw\_\_ ch\_m\_c\_ls c\_ll\_d DMS \_nd DMDS. Th\_s\_ \_r\_ "b\_\_s\_gn\_t\_r\_s" - th\_\_ p\_t\_nt\_\_l f\_ng\_rpr\_nts \_\_f l\_f\_. \_n \_\_rth, th\_s\_ \_r\_ \_nly pr\_d\_c\_d by m\_cr\_\_rg\_n\_sms, s\_ch \_\_s pl\_nkt\_n. Th\_\_ str\_n\_m\_rs \_\_s\_d th\_\_ ch\_m\_c\_ls \_\_r\_ "th\_\_ m\_st pr\_m\_s\_ng \_s\_gns y\_t" \_\_f l\_f\_.

Th\_ tw\_ b\_\_s\_gn\_t\_r\_s w\_r\_ d\_sc\_v\_r\_d \_n \_ pl\_n\_t c\_ll\_d K2-18b. Th\_s \_s \_b\_t 124 l\_ght y\_rs fr\_m \_\_ rth. \_n\_ l\_ght y\_r \_s \_ppr\_x\_m\_t\_ly 9.46 tr\_ll\_n km. Dr M\_dh\_s\_dh\_n sp\_c\_l\_t\_d th\_t th\_ pl\_n\_t \_s \_ Hyc\_n w\_rld. Th\_s \_s \_ p\_t\_nt\_\_lly h\_b\_t\_bl\_ pl\_n\_t c\_v\_r\_d \_n l\_q\_\_d w\_t\_r w\_th \_n \_b\_nd\_nc\_ \_f hydr\_g\_n. H\_ s\_\_d: "G\_v\_n \_v\_ryth\_ng w\_ kn\_w \_b\_\_t [th\_ pl\_n\_t K2-18b], \_ Hyc\_n w\_rld w\_th \_n \_c\_n th\_t \_s t\_m\_ng w\_th l\_f\_ \_s th\_ sc\_n\_r\_ th\_t b\_st f\_ts th\_ d\_t\_ w\_ h\_v\_." H\_w\_v\_r, h\_ st\_pp\_d sh\_rt \_f st\_t\_ng th\_t l\_f\_ \_x\_sts \_n th\_ pl\_n\_t. H\_ s\_\_d h\_ w\_s 99.7% s\_r\_ th\_t h\_s f\_nd\_ngs d\_d n\_t \_cc\_r by ch\_nc\_, b\_t n\_\_d\_d t\_ b\_ 99.99994% c\_rt\_n t\_ st\_t\_ \_s f\_ct th\_t w\_ \_r\_ n\_t \_l\_n\_.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

scientists are a step closer to providing an affirmative answer to the

question are we alone for centuries astronomers have been observing the

heavens for signs of extraterrestrial life earlier this week a team of

astronomers announced they had detected a chemical that provides the

conditions for life forms astrophysicist dr nikku madhusudhan from the

university of cambridges institute of astronomy announced the existence of

two chemicals called dms and dmds these are biosignatures the potential

fingerprints of life on earth these are only produced by microorganisms such

as plankton the astronomers said the chemicals are the most promising

signs yet of life

the two biosignatures were discovered on a planet called k218b this is about

124 light years from earth one light year is approximately 946 trillion km dr

madhusudhan speculated that the planet is a hycean world this is a

potentially habitable planet covered in liquid water with an abundance of

hydrogen he said given everything we know about the planet k218b a

hycean world with an ocean that is teeming with life is the scenario that best

fits the data we have however he stopped short of stating that life exists on

the planet he said he was 997% sure that his findings did not occur by

chance but needed to be 9999994% certain to state as fact that we are not

alone

Level 6 Scientists find possible alien life in outer space – 21st April 2025

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## PUT A SLASH ( / ) WHERE THE SPACES ARE

From <a href="https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html">https://breakingnewsenglish.com/2504/250421-exoplanet-k2-18b.html</a>

Scientistsareastepclosertoprovidinganaffirmativeanswertotheques tion"Arewealone?"Forcenturies, astronomers have been observing th eheavensforsignsofextraterrestriallife. Earlierthisweek, ateamofastr onomersannouncedtheyhaddetectedachemicalthatprovidesthecon ditionsforlifeforms. Astrophysicist Dr Nikku Madhusudhan from the Uni versityofCambridge'sInstituteofAstronomyannouncedtheexistence oftwochemicalscalledDMSandDMDS.Theseare"biosignatures"-the potentialfingerprintsoflife.OnEarth,theseareonlyproducedbymicroo rganisms, such as plankton. The astronomers said the chemical sare "th emostpromisingsignsyet"oflife. The two biosignatures were discovere donaplanetcalledK2-18b.Thisisabout124lightyearsfromEarth.Oneli ghtyearisapproximately9.46trillionkm.DrMadhusudhanspeculatedt hattheplanetisaHyceanworld.Thisisapotentiallyhabitableplanetcove redinliquidwaterwithanabundanceofhydrogen.Hesaid:"Giveneveryt hingweknowabout[theplanetK2-18b],aHyceanworldwithanoceant hatisteemingwithlifeisthescenariothatbestfitsthedatawehave."How ever, hestoppedshort of stating that life exists on the planet. He said hew as 99.7% sure that his findings did not occur by chance, but needed to be 9 9.99994%certaintostateasfactthatwearenotalone.

## **FREE WRITING**

Write about alien life for 10 minutes. Comment on your partner's paper.

# **ACADEMIC WRITING**

We should bring or welcome alien life to Earth. Discuss.				

#### **HOMEWORK**

- **1. VOCABULARY EXTENSION:** Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.
- **2. INTERNET:** Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.
- **3. ALIEN LIFE:** Make a poster about alien life. Show your work to your classmates in the next lesson. Did you all have similar things?
- **4. CONTACT:** Write a magazine article about making contact with aliens. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

- **5. WHAT HAPPENED NEXT?** Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.
- **6. LETTER:** Write a letter to an expert on alien life. Ask him/her three questions about it. Give him/her three of your ideas on what we should do if aliens came to Earth. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

## **ANSWERS**

## **VOCABULARY (p.4)**

2. 1. b 3. f 4. 5. С q а 7. е 8. k 9. 11. 10. i h 12. n 13. j 14. m

## TRUE / FALSE (p.5)

1 F 2 F 3 T 4 F 5 F 6 T 7 F 8 T

### **SYNONYM MATCH (p.5)**

1. g	2. d	3. j	4. b	5. h
6. e	7. i	8. a	9. f	10. c

#### **COMPREHENSION QUESTIONS (p.9)**

#### **WORDS IN THE RIGHT ORDER (p.19)**

1.	Centuries	1.	Scientists are a step closer to providing answers.
2.	Astrophysics	2.	Observing the heavens for signs of extraterrestrial life.
3.	Potential fingerprints of life	3.	A chemical that provides the conditions for life.
4.	Plankton	4.	He announced the existence of the two chemicals.
5.	Life (on another planet)	5.	On Earth, these are only produced by microorganisms.
6.	About 124 light years	6.	The two biosignatures were discovered on a planet.
7.	Water	7.	A potentially habitable planet covered in liquid water.
8.	Oceans	8.	A world with an ocean teeming with life.
9.	Life exists on other planets	9.	He stopped short of stating that life exists.
10.	99.7%	10.	State as fact that we are not alone.

## **MULTIPLE CHOICE - QUIZ (p.10)**

1. c 2. a 3. b 4. d 5. c 6. b 7. d 8. b 9. b 10. a

#### **ALL OTHER EXERCISES**

Please check for yourself by looking at the Article on page 2. (It's good for your English ;-)