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**Level 6 – 20th November 2023**

## NASA can send your name to Jupiter's moon Europa

**FREE online quizzes, mp3 listening and more for this lesson here:**

<https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

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

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# THE ARTICLE

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

The U.S. space agency NASA is inviting people to have their names engraved on a microchip bound for a moon of Jupiter. The spacecraft Europa Clipper will set off for Jupiter's moon Europa. The craft is set to embark on its 2.6-billion-kilometre voyage in October 2024. The journey through the heavens will take six years. Sending the names is part of a time-capsule project called "Message in a Bottle". The names will be etched next to a piece of poetry by U.S. poet Ada Limon called, "In Praise of Mystery: A Poem for Europa". NASA said: "The poem connects the two water worlds - Earth, yearning to reach out and understand what makes a world habitable, and Europa, waiting with secrets yet to be explored."

More than 700,000 names have already been submitted to NASA.

Engineers will use an electron beam to stencil them onto a tiny silicon microchip. NASA said: "Each line of text is smaller than 1/1000th the width of a human hair (75 nanometres)." It added: "Riding on the exterior of the spacecraft, the poem and names will be like a message in a bottle as they make about 50 close flybys of [Europa's] ocean world."

Europa is one of Jupiter's 95 officially recognized moons. The Europa Clipper will gather data on the moon's atmosphere, icy crust and ocean. NASA said: "Europa is such a promising place to better understand the astro-biological potential for habitable worlds beyond Earth."

Sources: <https://go.nasa.gov/MessageInABottle>  
<https://www.nasa.gov/missions/europa-clipper/time-is-running-out-to-add-your-name-to-nasas-europa-clipper/>  
<https://www.ndtv.com/world-news/now-you-can-send-your-name-to-jupiters-moon-on-nasas-europa-clipper-4580823>

# WARM-UPS

**1. JOURNEYING THROUGH SPACE:** Students walk around the class and talk to other students about journeying through space. 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?

space / space agency / names / microchip / moon / Jupiter / voyage / the heavens / NASA / beam / microchip / human hair / spacecraft / poem / data / atmosphere

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

**3. ON EARTH:** Students A **strongly** believe it's better to spend money on Earth rather than on space exploration; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.

**4. POEMS:** What would you write about in these "In Praise of..." poems? Why would you praise these things? Complete this table with your partner(s). Change partners often and share what you wrote.

"In Praise of..."	Content	Why?
English"		
the Internet"		
Teachers"		
My friend"		
Water"		
Love"		

**5. MICROCHIP:** Spend one minute writing down all of the different words you associate with the word "microchip". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

**6. LOCATION:** Rank these with your partner. Rank the best places for your name to be. Change partners often and share your rankings.

- A marriage certificate
- Hollywood movie poster
- Winning lottery ticket
- Nobel prize list
- A PhD degree
- VIP list
- Airplane
- Jupiter

# VOCABULARY MATCHING

## Paragraph 1

- |                |  |
|----------------|--|
| 1. engraved    | a. Begin a course of action.                                       |
| 2. bound       | b. A long journey involving travel by sea or in space.             |
| 3. set         | c. Cut or carved a text or design on the surface of a hard object. |
| 4. embark      | d. A feeling of intense longing for something.                     |
| 5. voyage      | e. On the way to, heading for.                                     |
| 6. the heavens | f. Ready or scheduled to do something or go somewhere.             |
| 7. yearning    | g. Space.  |

## Paragraph 2

- |               |  |
|---------------|--|
| 8. submitted  | h. Suitable or good enough to live in.   |
| 9. beam       | i. Gave or presented a proposal, application, or other document to a person or body.                         |
| 10. stencil   | j. A ray or shaft of light.  |
| 11. flyby     | k. The outermost layer of rock of which a planet consists.   |
| 12. crust     | l. A flight past a point, especially the close approach of a spacecraft to a planet or moon for observation. |
| 13. promising | m. Produce a design using a template.  |
| 14. habitable | n. Showing signs of future success.  |

# BEFORE READING / LISTENING

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

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

1. NASA wants people to engrave their names on the side of a rocket. **T / F**
2. The NASA spacecraft is called the Jupiter Clipper. **T / F**
3. The journey to Europa is 2.6 billion kilometres long. **T / F**
4. A poem connecting Earth and Europa will also be on the space ship. **T / F**
5. NASA has already been sent more than a million names. **T / F**
6. Each line of text for the names is as thin as a human hair. **T / F**
7. The spaceship will fly past the moon Europa 50 times. **T / F**
8. NASA hopes to know more about habitable places in space. **T / F**

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

- |                      |                      |
|----------------------|----------------------|
| 1. <b>inviting</b>   | a. likely-looking    |
| 2. <b>engraving</b>  | b. links             |
| 3. <b>voyage</b>     | c. longing           |
| 4. <b>connects</b>   | d. miniscule         |
| 5. <b>yearning</b>   | e. etching           |
| 6. <b>submitted</b>  | f. fit to live in/on |
| 7. <b>tiny</b>       | g. amass             |
| 8. <b>gather</b>     | h. journey           |
| 9. <b>promising</b>  | i. sent              |
| 10. <b>habitable</b> | j. requesting        |

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

- |                                    |                          |
|------------------------------------|--------------------------|
| 1. have their names engraved       | a. biological potential  |
| 2. The journey through the heavens | b. beam                  |
| 3. etched next to a piece          | c. to be explored        |
| 4. yearning to                     | d. crust                 |
| 5. secrets yet                     | e. on a microchip        |
| 6. Engineers will use an electron  | f. of poetry             |
| 7. 1/1000th the                    | g. recognized moons      |
| 8. one of Jupiter's 95 officially  | h. reach out             |
| 9. icy                             | i. width of a human hair |
| 10. understand the astro-          | j. will take six years   |

# GAP FILL

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

The U.S. space agency NASA is inviting people to have their names (1) \_\_\_\_\_ on a microchip bound for a moon of Jupiter. The spacecraft Europa Clipper will (2) \_\_\_\_\_ off for Jupiter's moon Europa. The craft is set to (3) \_\_\_\_\_ on its 2.6-billion-kilometre voyage in October 2024. The journey through the (4) \_\_\_\_\_ will take six years. Sending the names is part of a time-(5) \_\_\_\_\_ project called "Message in a Bottle". The names will be etched next to a piece of (6) \_\_\_\_\_ by U.S. poet Ada Limon called, "In Praise of Mystery: A Poem for Europa". NASA said: "The poem connects the two water worlds - Earth, (7) \_\_\_\_\_ to reach out and understand what makes a world (8) \_\_\_\_\_, and Europa, waiting with secrets yet to be explored."

*poetry*  
*set*  
*habitable*  
*heavens*  
*yearning*  
*engraved*  
*capsule*  
*embark*

More than 700,000 names have already been (9) \_\_\_\_\_ to NASA. Engineers will use an electron (10) \_\_\_\_\_ to stencil them onto a tiny silicon microchip. NASA said: "Each line of text is smaller than 1/1000th the (11) \_\_\_\_\_ of a human hair (75 nanometres)." It added: "Riding on the exterior of the spacecraft, the poem and names will be like a message in a bottle as they make about 50 close (12) \_\_\_\_\_ of [Europa's] ocean world." Europa is one of Jupiter's 95 (13) \_\_\_\_\_ recognized moons. The Europa Clipper will gather data on the moon's atmosphere, icy (14) \_\_\_\_\_ and ocean. NASA said: "Europa is such a (15) \_\_\_\_\_ place to better understand the astro-biological potential for habitable worlds (16) \_\_\_\_\_ Earth."

*width*  
*beyond*  
*submitted*  
*officially*  
*promising*  
*beam*  
*flybys*  
*crust*

# LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

- 1) The U.S. space agency NASA is inviting people to have \_\_\_\_\_
  - a. their names ingrained
  - b. their names engraved
  - c. their name send graved
  - d. their names ingratiated
- 2) The craft is set to embark on its 2.6- \_\_\_\_\_
  - a. billion-kilometre voyage
  - b. billion-kilometre void
  - c. billion-kilometre beige
  - d. billion-kilometre vogue
- 3) The names will be etched next to a \_\_\_\_\_
  - a. piece of pottery
  - b. piece of poetry
  - c. piece of symmetry
  - d. piece of paltry
- 4) Earth, yearning to reach out and understand what makes \_\_\_\_\_
  - a. a world habit table
  - b. a world happy table
  - c. a world habit a ball
  - d. a world habitable
- 5) and Europa, waiting with secrets yet \_\_\_\_\_
  - a. to be explores
  - b. to be explore
  - c. to be explorer
  - d. to be explored
- 6) submitted to NASA. Engineers will use an electron beam \_\_\_\_\_
  - a. to pencil them
  - b. twos ten sill them
  - c. tooth seal them
  - d. to stencil them
- 7) More than 700,000 names have already been \_\_\_\_\_
  - a. submit it to NASA
  - b. submission to NASA
  - c. submitting to NASA
  - d. submitted to NASA
- 8) the poem and names will be like a message in a bottle as they make about \_\_\_\_\_
  - a. 50 close flybys
  - b. 50 close fly byes
  - c. 50 close bye-byes
  - d. 50 close by flies
- 9) The Europa Clipper will gather data on the moon's \_\_\_\_\_
  - a. atmosphere, icy craft
  - b. atmosphere, icy cusp
  - c. atmosphere, icy crust
  - d. atmosphere, icy crass
- 10) a promising place to better understand the astro-biological potential \_\_\_\_\_
  - a. four habitable worlds
  - b. for habitable worlds
  - c. form habitable worlds
  - d. fir habitable worlds

# LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

The U.S. space agency NASA is inviting people to have their names (1) \_\_\_\_\_ microchip bound for a moon of Jupiter. The spacecraft Europa Clipper will set off for Jupiter's moon Europa. The craft is (2) \_\_\_\_\_ on its 2.6-billion-kilometre voyage in October 2024. The journey (3) \_\_\_\_\_ will take six years. Sending the names is part of a time-capsule project called "Message in a Bottle". The names will be etched next to a (4) \_\_\_\_\_ by U.S. poet Ada Limon called, "In Praise of Mystery: A Poem for Europa". NASA said: "The poem connects the two water worlds - Earth, (5) \_\_\_\_\_ out and understand what makes a world habitable, and Europa, waiting with secrets yet (6) \_\_\_\_\_."

More than 700,000 names have already been submitted to NASA. Engineers will use an electron (7) \_\_\_\_\_ them onto a tiny silicon microchip. NASA said: "Each line of text is smaller than 1/1000th the (8) \_\_\_\_\_ human hair (75 nanometres)." It added: "Riding on (9) \_\_\_\_\_ the spacecraft, the poem and names will be like a message in a bottle as they make about 50 (10) \_\_\_\_\_ [Europa's] ocean world." Europa is one of Jupiter's 95 officially recognized moons. The Europa Clipper will gather data on the moon's atmosphere, (11) \_\_\_\_\_ ocean. NASA said: "Europa is such a promising place to better understand the astro-biological (12) \_\_\_\_\_ worlds beyond Earth."



# COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

1. What can people have their names written on?
2. How far is Europa from Earth?
3. What is the name of NASA's project?
4. Who is Ada Limon?
5. What does Europa have that is waiting to be discovered?
6. How many names does NASA currently have?
7. What is the width in nanometres of a line of text for the names?
8. How many moons does Jupiter have?
9. What does NASA want data on besides Europa's atmosphere and ocean?
10. What kind of potential does NASA want to better understand?

# MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

- 1) What can people have their names written on?
  - a) Jupiter
  - b) a microchip
  - c) a piece of space dust
  - d) a plaque in the NASA museum
- 2) How far is Europa from Earth?
  - a) 2.4 billion kilometres
  - b) 2.2 billion kilometres
  - c) 2.8 billion kilometres
  - d) 2.6 billion kilometres
- 3) What is the name of NASA's project?
  - a) Roxanne
  - b) Invisible Sun
  - c) Message in a Bottle
  - d) De Do Do Do, De Da Da Da
- 4) Who is Ada Limon?
  - a) a poet
  - b) an astronaut
  - c) a rocket designer
  - d) an astrophysicist
- 5) What does Europa have that is waiting to be discovered?
  - a) gold
  - b) secrets
  - c) edible plants
  - d) drinkable water
- 6) How many names does NASA currently have?
  - a) more than 700,000
  - b) more than 800,000
  - c) more than 900,000
  - d) more than 1,000,000
- 7) What is the width in nanometres of a line of text for the names?
  - a) 60
  - b) 95
  - c) 75
  - d) 85
- 8) How many moons does Jupiter have?
  - a) 95
  - b) 94
  - c) 93
  - d) 92
- 9) What does NASA want data on besides Europa's atmosphere and ocean?
  - a) asteroids
  - b) the Milky Way
  - c) solar flares
  - d) its icy crust
- 10) What kind of potential does NASA want to better understand?
  - a) astrophysical potential
  - b) moneymaking potential
  - c) astro-biological potential
  - d) potential to travel in time

# ROLE PLAY

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

## **Role A – A Hollywood Movie Poster**

You think a Hollywood movie poster is the best place for your name to be. Tell the others three reasons why. Tell them what is wrong with their places. Also, tell the others which is the least appealing of these places (and why): PhD degree, Jupiter or marriage certificate.

## **Role B – A PhD Degree**

You think a PhD degree is the best place for your name to be. Tell the others three reasons why. Tell them what is wrong with their places. Also, tell the others which is the least appealing of these places (and why): Hollywood movie poster, Jupiter or marriage certificate.

## **Role C – Jupiter**

You think Jupiter is the best place for your name to be. Tell the others three reasons why. Tell them what is wrong with their places. Also, tell the others which is the least appealing of these places (and why): PhD degree, Hollywood movie poster or marriage certificate.

## **Role D – A Marriage Certificate**

You think a marriage certificate is the best place for your name to be. Tell the others three reasons why. Tell them what is wrong with their places. Also, tell the others which is the least appealing of these places (and why): PhD degree, Jupiter or Hollywood movie poster.

# AFTER READING / LISTENING

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

**1. WORD SEARCH:** Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'space' and 'moon'.

<b>space</b>	<b>moon</b>
--------------	-------------

- 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 style="list-style-type: none"><li>• inviting</li><li>• embark</li><li>• journey</li><li>• piece</li><li>• reach</li><li>• secrets</li></ul>	<ul style="list-style-type: none"><li>• already</li><li>• beam</li><li>• text</li><li>• 50</li><li>• 95</li><li>• place</li></ul>
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# JOURNEYING THROUGH SPACE SURVEY

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

Write five GOOD questions about journeying through space 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 _____
Q.1.			
Q.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.

# JOURNEYING THROUGH SPACE 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 'space'?
3. Would you like your name to visit Jupiter?
4. What do you know about NASA?
5. What do you know about the planet Jupiter?
6. What do you think the project will find?
7. What would it be like to live on another planet?
8. What things do you find to be mysterious?
9. How important is it to find habitable planets?
10. Why do humans like exploring so much?

*NASA can send your name to Jupiter's moon Europa – 20th November 2023*  
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# JOURNEYING THROUGH SPACE 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 'moon'?
13. What do you think about what you read?
14. How would you feel if your name was near Jupiter?
15. What message would you put in a bottle?
16. What things would you put in a time capsule?
17. What will life on Earth be like in 50 years from now?
18. What would working for NASA be like?
19. What would you write a poem in praise of?
20. What questions would you like to ask NASA?

# DISCUSSION (Write your own questions)

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

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# DISCUSSION (Write your own questions)

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

# LANGUAGE - CLOZE

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

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More than 700,000 names have already been submitted (7) \_\_\_\_\_ NASA. Engineers will use an electron beam to stencil (8) \_\_\_\_\_ onto a tiny silicon microchip. NASA said: "Each line of text is smaller than 1/1000th the width of a (9) \_\_\_\_\_ hair (75 nanometres)." It added: "Riding on the exterior of the spacecraft, the poem and names will be like a message in a bottle as they make about 50 close (10) \_\_\_\_\_ of [Europa's] ocean world." Europa is one of Jupiter's 95 officially recognized moons. The Europa Clipper will gather data (11) \_\_\_\_\_ the moon's atmosphere, icy crust and ocean. NASA said: "Europa is such a promising place to better understand the astro-biological potential (12) \_\_\_\_\_ habitable worlds beyond Earth."

## Put the correct words from the table below in the above article.

- |     |              |              |              |                  |
|-----|--------------|--------------|--------------|------------------|
| 1.  | (a) imbibing | (b) inviting | (c) inciting | (d) ingratiating |
| 2.  | (a) yet      | (b) set      | (c) met      | (d) let          |
| 3.  | (a) havens   | (b) heartens | (c) heathens | (d) heavens      |
| 4.  | (a) itched   | (b) etched   | (c) ached    | (d) arched       |
| 5.  | (a) watery   | (b) water    | (c) waters   | (d) waterproof   |
| 6.  | (a) set      | (b) let      | (c) yet      | (d) met          |
| 7.  | (a) as       | (b) by       | (c) to       | (d) of           |
| 8.  | (a) every    | (b) all      | (c) them     | (d) it           |
| 9.  | (a) humanity | (b) humanly  | (c) humane   | (d) human        |
| 10. | (a) flybys   | (b) laybys   | (c) standbys | (d) abyss        |
| 11. | (a) on       | (b) at       | (c) to       | (d) as           |
| 12. | (a) at       | (b) to       | (c) for      | (d) as           |



# SPELLING

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

## Paragraph 1

1. have their names ndvrgaee on a microchip
2. The craft is set to aebkrm
3. on its 2.6-billion-kilometre gaoeyv
4. part of a time-aplsuce project
5. names will be ehedct next to a piece of poetry
6. understand what makes a world hbieatabl

## Paragraph 2

7. use an trleneoc beam
8. inestlc them onto a tiny silicon microchip
9. the eitorexr of the spacecraft
10. Jupiter's 95 afyiofilcl recognized moons
11. the moon's prsmoeaht
12. understand the astro-biological noattlpie

# PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

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

- ( ) will be etched next to a piece of poetry by U.S. poet Ada Limon called, "In Praise of Mystery: A Poem for Europa". NASA
- ( ) of a human hair (75 nanometres)." It added: "Riding on the exterior of the
- ( ) spacecraft, the poem and names will be like a message in a bottle as they make about 50 close
- ( ) for a moon of Jupiter. The spacecraft Europa Clipper will set off for Jupiter's moon Europa. The craft is set to
- ( ) electron beam to stencil them onto a tiny silicon microchip. NASA said: "Each line of text is smaller than 1/1000th the width
- ( ) heavens will take six years. Sending the names is part of a time-capsule project called "Message in a Bottle". The names
- ( ) place to better understand the astro-biological potential for habitable worlds beyond Earth."
- ( ) flybys of [Europa's] ocean world." Europa is one of Jupiter's 95 officially recognized moons. The Europa Clipper will gather
- ( **1** ) The U.S. space agency NASA is inviting people to have their names engraved on a microchip bound
- ( ) embark on its 2.6-billion-kilometre voyage in October 2024. The journey through the
- ( ) data on the moon's atmosphere, icy crust and ocean. NASA said: "Europa is such a promising
- ( ) More than 700,000 names have already been submitted to NASA. Engineers will use an
- ( ) said: "The poem connects the two water worlds - Earth, yearning to reach
- ( ) out and understand what makes a world habitable, and Europa, waiting with secrets yet to be explored."

# PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

1. will Jupiter's spacecraft off set for The moon .
2. journey years . The heavens the through will take
3. piece Names poetry . next a etched of to
4. the The connects poem two worlds . water
5. be with yet waiting Europa's to explored . secrets
6. submitted . have names already 700,000 than More been
7. silicon a tiny them onto microchip . Stencil
8. make about of flybys close 50 Europa . They
9. officially Jupiter's moons . recognized Europa one of is
10. habitable worlds . understand Better potential astrobiological the for

# CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

The U.S. space agency NASA is *inviting / invites* people to have their names engraved on a microchip *round / bound* for a moon of Jupiter. The spacecraft Europa Clipper will *let / set* off for Jupiter's moon Europa. The craft is set to *embark / disembark* on its 2.6-billion-kilometre *voyage / voyager* in October 2024. The journey through the *heavens / hells* will take six years. Sending the names is part of a time-capsule project called "Message in a Bottle". The names will be *itched / etched* next to a piece of poetry by U.S. poet Ada Limon called, "*On / In Praise of Mystery: A Poem for Europa*". NASA said: "The *poem / poetic* connects the two water worlds - Earth, yearning to reach out and understand what makes a world habitable, and Europa, waiting with secrets *yet / are* to be explored."

More than 700,000 names *have / are* already been submitted to NASA. Engineers will use an electron beam to stencil *it / them* onto a tiny silicon microchip. NASA said: "Each line *of / on* text is smaller than 1/1000th the width of a *humane / human* hair (75 nanometres)." It added: "Riding *on / to* the exterior of the spacecraft, the poem and names will be *similar / like* a message in a bottle as they make about 50 *closed / close* flybys of [Europa's] ocean world." Europa is one of Jupiter's 95 officially recognized moons. The Europa Clipper will gather data *on / to* the moon's atmosphere, icy crust and ocean. NASA said: "Europa is such *a / the* promising place to better understand the astro-biological potential for habitable worlds *behind / beyond* Earth."

**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//2311/231120-send-your-name-to-jupiter.html>

Th\_ \_S. sp\_c\_ \_g\_ncy N\_S\_ \_s \_nv\_t\_ng p\_\_pl\_ t\_ h\_v\_ th\_\_r n\_m\_s \_ngr\_v\_d \_n \_ m\_cr\_ch\_p b\_\_nd f\_r \_ m\_\_n \_f J\_p\_t\_r. Th\_ sp\_c\_cr\_ft \_\_r\_p\_ Cl\_pp\_r w\_ll s\_t \_ff f\_r J\_p\_t\_r's m\_\_n \_\_r\_p\_. Th\_ cr\_ft \_s s\_t t\_ \_mb\_rk \_n \_ts 2.6-b\_ll\_\_n-k\_l\_m\_tr\_ v\_y\_g\_ \_n \_ct\_b\_r 2024. Th\_ j\_\_rn\_y thr\_\_gh th\_ h\_\_v\_ns w\_ll t\_k\_ s\_x y\_\_rs. S\_ndng th\_ n\_m\_s \_s p\_rt \_f \_ t\_m\_-c\_ps\_l\_ pr\_j\_ct c\_ll\_d "M\_ss\_g\_ \_n \_ B\_ttl\_". Th\_ n\_m\_s w\_ll b\_ \_tch\_d n\_xt t\_ \_ p\_\_c\_ \_f p\_\_try by \_S. p\_\_t \_d\_ L\_m\_n c\_ll\_d, "\_n Pr\_\_s\_ \_f Myst\_ry: \_ P\_\_m f\_r \_\_r\_p\_". N\_S\_ s\_\_d: "Th\_ p\_\_m c\_nn\_cts th\_ tw\_ w\_t\_r w\_rlds - \_\_rth, y\_\_rnng t\_ r\_\_ch \_\_t \_nd \_nd\_rst\_nd wh\_t m\_k\_s \_ w\_rld h\_b\_t\_bl\_, \_nd \_\_r\_p\_, w\_\_t\_ng w\_th s\_cr\_ts y\_t t\_ b\_ \_xpl\_r\_d."

M\_r\_ th\_n 700,000 n\_m\_s h\_v\_ \_lr\_\_dy b\_\_n s\_bm\_tt\_d t\_ N\_S\_. \_ng\_n\_\_rs w\_ll \_s\_ \_n \_l\_ctr\_n b\_\_m t\_ st\_nc\_l th\_m \_nt\_ \_ t\_ny s\_l\_c\_n m\_cr\_ch\_p. N\_S\_ s\_\_d: "\_\_ch l\_n\_ \_f t\_xt \_s sm\_ll\_r th\_n 1/1000th th\_ w\_dth \_f \_ h\_m\_n h\_\_r (75 n\_n\_m\_tr\_s)." \_t \_dd\_d: "R\_d\_ng \_n th\_ \_xt\_r\_\_r \_f th\_ sp\_c\_cr\_ft, th\_ p\_\_m \_nd n\_m\_s w\_ll b\_ l\_k\_ \_ m\_ss\_g\_ \_n \_ b\_ttl\_ \_s th\_y m\_k\_ \_b\_\_t 50 cl\_s\_ flybys \_f [\_\_r\_p\_'s] \_c\_\_n w\_rld." \_\_r\_p\_ \_s \_n\_ \_f J\_p\_t\_r's 95 \_ff\_c\_\_lly r\_c\_gn\_z\_d m\_\_ns. Th\_ \_\_r\_p\_ Cl\_pp\_r w\_ll g\_th\_r d\_t\_ \_n th\_ m\_\_n's \_tm\_sph\_r\_, \_cy cr\_st \_nd \_c\_\_n. N\_S\_ s\_\_d: "\_\_r\_p\_ \_s s\_ch \_ pr\_m\_s\_ng pl\_c\_ t\_ b\_ttr \_nd\_rst\_nd th\_ \_str\_-b\_\_l\_g\_c\_l p\_t\_nt\_\_l f\_r h\_b\_t\_bl\_ w\_rlds b\_y\_nd \_\_rth."

# PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

the us space agency nasa is inviting people to have their names engraved on a microchip bound for a moon of jupiter the spacecraft europa clipper will set off for jupiters moon europa the craft is set to embark on its 26billionkilometre voyage in october 2024 the journey through the heavens will take six years sending the names is part of a timecapsule project called message in a bottle the names will be etched next to a piece of poetry by us poet ada limon called in praise of mystery a poem for europa nasa said the poem connects the two water worlds earth yearning to reach out and understand what makes a world habitable and europa waiting with secrets yet to be explored

more than 700000 names have already been submitted to nasa engineers will use an electron beam to stencil them onto a tiny silicon microchip nasa said each line of text is smaller than 11000th the width of a human hair 75 nanometres it added riding on the exterior of the spacecraft the poem and names will be like a message in a bottle as they make about 50 close flybys of europas ocean world europa is one of jupiters 95 officially recognized moons the europa clipper will gather data on the moons atmosphere icy crust and ocean nasa said europa is such a promising place to better understand the astrobiological potential for habitable worlds beyond earth

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com//2311/231120-send-your-name-to-jupiter.html>

The U.S. space agency NASA is inviting people to have their names engraved on a microchip bound for a moon of Jupiter. The spacecraft Europa Clipper will set off for Jupiter's moon Europa. The craft is set to embark on its 2.6-billion-kilometre voyage in October 2024. The journey through the heavens will take six years. Sending the names is part of a time-capsule project called "Message in a Bottle". The names will be etched next to a piece of poetry by U.S. poet Ada Limón called, "In Praise of Mystery: A Poem for Europa". NASA said: "The poem connects the two water worlds - Earth, yearning to reach out and understand what makes a world habitable, and Europa, waiting with secrets yet to be explored." More than 700,000 names have already been submitted to NASA. Engineers will use an electron beam to stencil the names onto a tiny silicon microchip. NASA said: "Each line of text is smaller than 1/1000th the width of a human hair (75 nanometres)." It added: "Riding on the exterior of the spacecraft, the poem and names will be like a message in a bottle as they make about 50 close flybys of [Europa's] ocean world." Europa is one of Jupiter's 95 officially recognized moons. The Europa Clipper will gather data on the moon's atmosphere, icy crust and ocean. NASA said: "Europa is such a promising place to better understand the astro-biological potential for habitable worlds beyond Earth."







# 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. JOURNEYING THROUGH SPACE:** Make a poster about journeying through space. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. LIFE ON EARTH:** Write a magazine article about spending money on saving life on Earth instead of space exploration. 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 journeying through space. Ask him/her three questions about it. Give him/her three of your ideas on what we need to do in space. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

# ANSWERS

## VOCABULARY (p.4)

1. c    2. e    3. f    4. a    5. b    6. g    7. d  
8. i    9. j    10. m    11. l    12. k    13. n    14. h

## TRUE / FALSE (p.5)

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

## SYNONYM MATCH (p.5)

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

## COMPREHENSION QUESTIONS (p.9)

1. A microchip
2. 2.6 billion kilometres
3. Message in a Bottle
4. A poet
5. Secrets
6. More than 700,000
7. 75
8. 95
9. Its icy crust
10. Astro-biological potential

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

1. The spacecraft will set off for Jupiter's moon.
2. The journey through the heavens will take years.
3. Names etched next to a piece of poetry.
4. The poem connects the two water worlds.
5. Europa's waiting with secrets yet to be explored.
6. More than 700,000 names have already been submitted.
7. Stencil them onto a tiny silicon microchip.
8. They make about 50 close flybys of Europa.
9. Europa is one of Jupiter's officially recognized moons.
10. Better understand the astro-biological potential for habitable worlds.

## MULTIPLE CHOICE - QUIZ (p.10)

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

## ALL OTHER EXERCISES

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