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**Level 6 – 19th December 2022**

## Satellite launched to map Earth's water

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<https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

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

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# THE ARTICLE

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

A U.S.-French satellite has been launched with a mission to map all the world's oceans, lakes, reservoirs, rivers and other waterways. The satellite has been dubbed SWOT - Surface Water and Ocean Topography. It went into space just before dawn on Friday. Scientists hope data from the satellite will help them to monitor how climate change is adversely changing water levels. The U.S. broadcaster PBS said: "The satellite is needed more than ever, as climate change worsens droughts, flooding and coastal erosion." A NASA spokesperson spoke of the mission's importance. She said: "It's a pivotal moment....We're going to see Earth's water like we've never seen it before."

The SWOT satellite is about the size of an SUV (sports utility vehicle). It took 20 years to develop, at a cost of \$1.2 billion. High-precision radar equipment will measure the height of water on more than 90 per cent of Earth's surface. It will survey millions of lakes, as well as 2.1 million kilometres of rivers. Scientists will identify potential areas of water loss that could threaten local populations and coastlines. NASA said SWOT is a marked technological upgrade from its predecessors. A spokesperson said: "SWOT will give us a ten-fold improvement in the [accuracy] and spatial resolution of our measurements of water height." It will help scientists to better understand, "the critical role the oceans play in climate change".

Sources: <https://www.pbs.org/newshour/science/u-s-french-satellite-launched-to-map-almost-all-of-the-worlds-oceans-lakes-rivers>  
<https://www.aljazeera.com/news/2022/12/16/us-france-satellite-to-map-worlds-oceans-rivers-lakes>  
<https://spacenews.com/falcon-9-launches-ocean-science-mission-for-nasa-and-cnec/>

# WARM-UPS

**1. WATER:** Students walk around the class and talk to other students about water. 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?

satellite / mission / reservoir / dawn / climate change / water levels / drought / Earth SUV / radar / surface / scientists / water loss / upgrade / measurements / oceans

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

**3. WATER WARS:** Students A **strongly** believe we should conserve water to avoid water wars in the future; Students B **strongly** believe water wars will never happen. Change partners again and talk about your conversations.

**4. WORLD WATER:** What do you know about these bodies of water and waterways? What would you like 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
The Pacific Ocean		
The Great Barrier Reef		
The River Amazon		
The Dead Sea		
Loch Ness		
The Suez Canal		

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

**6. WATER USES:** Rank these with your partner. Put the worst uses of water at the top. Change partners often and share your rankings.

- Hose pipes
- Swimming pools
- Car washes
- Water parks
- Golf courses
- Bottled water
- Water pistols
- Fountains

# VOCABULARY MATCHING

## Paragraph 1

- |              |   |
|--------------|---|
| 1. mission   | a. In a way that prevents success or development.                                     |
| 2. reservoir | b. A prolonged period of abnormally low rainfall, leading to a shortage of water.     |
| 3. dubbed    | c. A trip or expedition into space.   |
| 4. adversely | d. Of crucial importance in relation to the development or success of something else. |
| 5. drought   | e. A large natural or artificial lake used as a source of water supply.               |
| 6. erosion   | f. Gave an unofficial name or nickname to.  |
| 7. pivotal   | g. The process of being worn away by wind, water, or other natural agents.            |

## Paragraph 2

- |                 |   |
|-----------------|---|
| 8. precision    | h. Having a decisive or crucial importance in the success, failure, or existence of something.              |
| 9. measure      | i. The quality, condition, or fact of being exact and accurate.   |
| 10. potential   | j. Find the size, amount, or degree of something by using an instrument or device marked in standard units. |
| 11. marked      | k. A thing that has been followed or replaced by another.   |
| 12. predecessor | l. Clearly noticeable.  |
| 13. resolution  | m. Having or showing the capacity to develop into something in the future.                                  |
| 14. critical    | n. The degree of detail visible in a photographic or television image.                                      |

# BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

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

1. A Sino-American satellite will map the world's water. **T / F**
2. The satellite is called SWOT - Satellite for Water and Ocean Topography. **T / F**
3. The satellite was launched early Friday evening. **T / F**
4. The broadcaster PBS said the satellite was very much needed. **T / F**
5. The satellite is the size of a sports utility vehicle. **T / F**
6. The satellite will survey 2.1 million kilometres of Earth's rivers. **T / F**
7. The satellite has the same level of technology as earlier satellites. **T / F**
8. The satellite will help scientists understand climate change more. **T / F**

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

- |                     |               |
|---------------------|---------------|
| 1. <b>mission</b>   | a. daybreak   |
| 2. <b>dubbed</b>    | b. part       |
| 3. <b>dawn</b>      | c. vital      |
| 4. <b>adversely</b> | d. inspect    |
| 5. <b>pivotal</b>   | e. nicknamed  |
| 6. <b>develop</b>   | f. exactness  |
| 7. <b>precision</b> | g. journey    |
| 8. <b>survey</b>    | h. recognize  |
| 9. <b>identify</b>  | i. negatively |
| 10. <b>role</b>     | j. create     |

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

- |  |                           |
|--|---------------------------|
| 1. The satellite has been dubbed             | a. vehicle                |
| 2. climate change is adversely               | b. never seen it before   |
| 3. climate change worsens droughts, flooding | c. coastlines             |
| 4. It's a pivotal                            | d. areas of water loss    |
| 5. see Earth's water like we've              | e. and coastal erosion    |
| 6. sports utility                            | f. SWOT                   |
| 7. High-precision                            | g. play in climate change |
| 8. Scientists will identify potential        | h. moment                 |
| 9. threaten local populations and            | i. radar equipment        |
| 10. the critical role the oceans             | j. changing water levels  |

# GAP FILL

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

A U.S.-French satellite has been launched with a (1) \_\_\_\_\_ to map all the world's oceans, lakes, (2) \_\_\_\_\_, rivers and other waterways. The satellite has been (3) \_\_\_\_\_ SWOT - Surface Water and Ocean Topography. It went into space just before (4) \_\_\_\_\_ on Friday. Scientists hope data from the satellite will help them to monitor how climate change is (5) \_\_\_\_\_ changing water levels. The U.S. broadcaster PBS said: "The satellite is needed more than ever, as climate change (6) \_\_\_\_\_ droughts, flooding and coastal erosion." A NASA spokesperson spoke of the mission's (7) \_\_\_\_\_. She said: "It's a (8) \_\_\_\_\_ moment....We're going to see Earth's water like we've never seen it before."

*dubbed*  
*importance*  
*adversely*  
*pivotal*  
*reservoirs*  
*worsens*  
*mission*  
*dawn*

The SWOT satellite is about the size of an SUV (sports utility vehicle). It took 20 years to (9) \_\_\_\_\_, at a cost of \$1.2 billion. High-(10) \_\_\_\_\_ radar equipment will measure the height of water on more than 90 per cent of Earth's (11) \_\_\_\_\_. It will survey millions of lakes, as well as 2.1 million kilometres of rivers. Scientists will identify (12) \_\_\_\_\_ areas of water loss that could threaten local populations and coastlines. NASA said SWOT is a (13) \_\_\_\_\_ technological upgrade from its predecessors. A spokesperson said: "SWOT will give us a ten- (14) \_\_\_\_\_ improvement in the [accuracy] and (15) \_\_\_\_\_ resolution of our measurements of water height." It will help scientists to better understand, "the critical role the oceans (16) \_\_\_\_\_ in climate change".

*fold*  
*precision*  
*play*  
*potential*  
*spatial*  
*develop*  
*marked*  
*surface*

# LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

- 1) It went into space just before \_\_\_\_\_
  - a. drawn on Friday
  - b. down on Friday
  - c. dawn on Friday
  - d. door on Friday
- 2) data from the satellite will help them to monitor how climate change \_\_\_\_\_
  - a. is at verse rich dangling
  - b. is adversely changing
  - c. is ad verse all changing
  - d. is add verse really changing
- 3) more than ever, as climate change worsens droughts, flooding \_\_\_\_\_
  - a. and coast all erosion
  - b. and coastal eroding
  - c. and coastal erasure
  - d. and coastal erosion
- 4) A NASA spokesperson spoke of the mission's importance. She said it's \_\_\_\_\_
  - a. a pivot all moment
  - b. a pivot tall moment
  - c. a pivotal moment
  - d. a pivot tail moment
- 5) We're going to see Earth's water like we've never \_\_\_\_\_
  - a. seen it before
  - b. see knit before
  - c. seen nit before
  - d. see nit before
- 6) measure the height of water on more than 90 per cent \_\_\_\_\_
  - a. of Earth's surface
  - b. off Earth surface
  - c. oft Earth's surface
  - d. of Earth surface
- 7) Scientists will identify potential areas of water loss that could \_\_\_\_\_
  - a. treat in local populations
  - b. threaten low call populations
  - c. treating low call populations
  - d. threaten local populations
- 8) NASA said SWOT is a marked technological upgrade \_\_\_\_\_
  - a. from mitts predecessors
  - b. fro mitts predecessors
  - c. from mites predecessors
  - d. from its predecessors
- 9) a ten-fold improvement in the accuracy \_\_\_\_\_
  - a. and spay shall resolution
  - b. and spatial resolution
  - c. and spay shell resolution
  - d. and space shell resolution
- 10) It will help scientists to better understand \_\_\_\_\_
  - a. the critical roll
  - b. the critical all
  - c. the critical rule
  - d. the critical role

# LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

A U.S.-French satellite has been launched with a (1) \_\_\_\_\_ all the world's oceans, lakes, (2) \_\_\_\_\_ other waterways. The satellite has been dubbed SWOT - Surface Water and Ocean Topography. It went into space (3) \_\_\_\_\_ on Friday. Scientists hope data from the satellite will help them to monitor how climate change (4) \_\_\_\_\_ water levels. The U.S. broadcaster PBS said: "The satellite is needed more than ever, as climate change (5) \_\_\_\_\_ and coastal erosion." A NASA spokesperson spoke of the mission's importance. She said: "It's (6) \_\_\_\_\_....We're going to see Earth's water like we've never seen it before."

The SWOT satellite is about the size of an SUV (7) \_\_\_\_\_. It took 20 years to develop, at a cost of \$1.2 billion. High-precision radar equipment will (8) \_\_\_\_\_ of water on more than 90 per cent of Earth's surface. It will survey millions of lakes, as well as 2.1 million kilometres of rivers. Scientists will (9) \_\_\_\_\_ of water loss that could threaten local populations and coastlines. NASA said SWOT is a marked technological upgrade (10) \_\_\_\_\_. A spokesperson said: "SWOT will give (11) \_\_\_\_\_ improvement in the [accuracy] and spatial resolution of our measurements of water height." It will help scientists to better understand, "the (12) \_\_\_\_\_ oceans play in climate change".

# COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

1. Which two countries developed the satellite?
2. At what time of the day did the satellite launch into space?
3. Which broadcaster said the satellite was needed more than ever?
4. What might climate change erode?
5. What kind of moment did NASA say the satellite's launch was?
6. How much did the satellite cost?
7. How much of the Earth's surface will the satellite map?
8. What could water losses threaten besides populations?
9. How much more accurate did NASA say the satellite was?
10. What critical role of oceans will SWOT help scientists understand?

# MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

- 1) Which two countries developed the satellite?
  - a) the USA and the UK
  - b) China and the USA
  - c) the US and Italy
  - d) the USA and France
- 2) At what time of the day did the satellite launch into space?
  - a) 6:45am
  - b) dawn
  - c) 4pm
  - d) midnight
- 3) Which broadcaster said the satellite was needed more than ever?
  - a) Fox News
  - b) CNN
  - c) BBC
  - d) PBS
- 4) What might climate change erode?
  - a) islands
  - b) clouds
  - c) coasts
  - d) water
- 5) What kind of moment did NASA say the satellite's launch was?
  - a) a hysterical moment
  - b) a monumental moment
  - c) a touching moment
  - d) a pivotal moment
- 6) How much did the satellite cost?
  - a) \$1.4 billion
  - b) \$1.1 billion
  - c) \$1.2 billion
  - d) \$1.3 billion
- 7) How much of the Earth's surface will the satellite map?
  - a) 90%
  - b) 80%
  - c) 70%
  - d) 60%
- 8) What could water losses threaten besides populations?
  - a) water parks
  - b) gold courses
  - c) coastlines
  - d) the bottled water industry
- 9) How much more accurate did NASA say the satellite was?
  - a) a lot
  - b) 10 times
  - c) many times
  - d) 100%
- 10) What critical role of oceans will SWOT help scientists understand?
  - a) climate change
  - b) reefs
  - c) the creation of plankton
  - d) underwater volcanoes

# ROLE PLAY

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

## **Role A – Hose Pipes**

You think hose pipes are the biggest waste of this valuable resource. Tell the others three reasons why. Tell them what is wrong with their uses. Also, tell the others which is the least wasteful of these (and why): swimming pools, golf courses or bottled water.

## **Role B – Swimming Pools**

You think swimming pools are the biggest waste of this valuable resource. Tell the others three reasons why. Tell them what is wrong with their uses. Also, tell the others which is the least wasteful of these (and why): hose pipes, golf courses or bottled water.

## **Role C – Golf Courses**

You think golf courses are the biggest waste of this valuable resource. Tell the others three reasons why. Tell them what is wrong with their uses. Also, tell the others which is the least wasteful of these (and why): swimming pools, hose pipes or bottled water.

## **Role D – Bottled Water**

You think bottled water is the biggest waste of this valuable resource. Tell the others three reasons why. Tell them what is wrong with their uses. Also, tell the others which is the least wasteful of these (and why): swimming pools, golf courses or hose pipes.

# AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

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

<b>water</b>	<b>satellite</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>• mission</li><li>• dubbed</li><li>• dawn</li><li>• adversely</li><li>• worsens</li><li>• moment</li></ul>	<ul style="list-style-type: none"><li>• size</li><li>• radar</li><li>• millions</li><li>• local</li><li>• fold</li><li>• role</li></ul>
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# WATER SURVEY

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

Write five GOOD questions about water 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.

# WATER 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 'water'?
3. What do you know about water?
4. What do you know about satellites?
5. What do you think of the SWOT satellite?
6. What is happening to your country's water?
7. What might spark water wars in the future?
8. How is climate change affecting water?
9. How would your country handle a drought?
10. What water problems has your country had?

*Satellite launched to map Earth's water – 19th December 2022*  
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# WATER 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 'satellite'?
13. What do you think about what you read?
14. What do you think of water?
15. What threats are there to levels and quality of water?
16. Is the SWOT satellite good value for money?
17. What would you do if water became scarce?
18. What role do oceans play in climate change?
19. What is climate change doing to the oceans?
20. What questions would you like to ask the topographers?

# 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/2212/221219-swot-water-satellite.html>

A U.S.-French satellite has been (1) \_\_\_\_\_ with a mission to map all the world's oceans, lakes, reservoirs, rivers and other waterways. The satellite has been (2) \_\_\_\_\_ SWOT - Surface Water and Ocean Topography. It went into space just before (3) \_\_\_\_\_ on Friday. Scientists hope data from the satellite will help them to monitor how climate change is (4) \_\_\_\_\_ changing water levels. The U.S. broadcaster PBS said: "The satellite is needed more than ever, as climate change worsens (5) \_\_\_\_\_, flooding and coastal erosion." A NASA spokesperson spoke of the mission's importance. She said: "It's a (6) \_\_\_\_\_ moment....We're going to see Earth's water like we've never seen it before."

The SWOT satellite is about the size of an SUV (sports utility vehicle). It took 20 years to develop, at a cost of \$1.2 billion. High-(7) \_\_\_\_\_ radar equipment will measure the height of water on more than 90 per cent of Earth's (8) \_\_\_\_\_. It will survey millions of lakes, as well as 2.1 million kilometres of rivers. Scientists will (9) \_\_\_\_\_ potential areas of water loss that could threaten local populations and coastlines. NASA said SWOT is a (10) \_\_\_\_\_ technological upgrade from its predecessors. A spokesperson said: "SWOT will give us a ten-(11) \_\_\_\_\_ improvement in the [accuracy] and spatial resolution of our measurements of water height." It will help scientists to better understand, "the (12) \_\_\_\_\_ role the oceans play in climate change".

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

- |     |                |               |               |                |
|-----|----------------|---------------|---------------|----------------|
| 1.  | (a) latched    | (b) lurched   | (c) lunched   | (d) launched   |
| 2.  | (a) dibbed     | (b) daubed    | (c) dabbed    | (d) dubbed     |
| 3.  | (a) drawn      | (b) dawn      | (c) down      | (d) drawing    |
| 4.  | (a) perversely | (b) aversely  | (c) adversely | (d) conversely |
| 5.  | (a) draughts   | (b) drafts    | (c) droughts  | (d) doubts     |
| 6.  | (a) pivotal    | (b) spigot    | (c) polyglot  | (d) capital    |
| 7.  | (a) precise    | (b) precision | (c) precisely | (d) précised   |
| 8.  | (a) surface    | (b) suffice   | (c) suffers   | (d) safes      |
| 9.  | (a) identity   | (b) identify  | (c) indemnify | (d) infantile  |
| 10. | (a) parked     | (b) barked    | (c) marked    | (d) harked     |
| 11. | (a) bend       | (b) wrap      | (c) fold      | (d) cross      |
| 12. | (a) critique   | (b) critics   | (c) criticism | (d) critical   |

# SPELLING

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

## Paragraph 1

1. a nsisiom to map all the world's oceans
2. lakes, resroiesvr, rivers and other waterways
3. climate change is dlrsaevye changing water levels
4. climate change worsens rguothsd
5. flooding and coastal ooesirn
6. It's a ivlotpa moment

## Paragraph 2

7. sports iuttily vehicle
8. High-enpcosiir radar equipment
9. identify etptaoinl areas of water loss
10. upgrade from its cdpeoesersrs
11. a ten-fold improvement in the ypracaccu
12. tislapa resolution

# PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

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

- ( ) Ocean Topography. It went into space just before dawn on Friday. Scientists hope data
- ( **1** ) A U.S.-French satellite has been launched with a mission to map all the world's oceans, lakes,
- ( ) from the satellite will help them to monitor how climate change is adversely changing water
- ( ) areas of water loss that could threaten local populations and coastlines. NASA said SWOT is a marked technological
- ( ) scientists to better understand, "the critical role the oceans play in climate change".
- ( ) surface. It will survey millions of lakes, as well as 2.1 million kilometres of rivers. Scientists will identify potential
- ( ) The SWOT satellite is about the size of an SUV (sports utility vehicle). It took 20 years to develop, at a cost
- ( ) upgrade from its predecessors. A spokesperson said: "SWOT will give us a ten-fold
- ( ) reservoirs, rivers and other waterways. The satellite has been dubbed SWOT - Surface Water and
- ( ) improvement in the [accuracy] and spatial resolution of our measurements of water height." It will help
- ( ) levels. The U.S. broadcaster PBS said: "The satellite is needed more than ever, as climate change worsens
- ( ) moment....We're going to see Earth's water like we've never seen it before."
- ( ) of \$1.2 billion. High-precision radar equipment will measure the height of water on more than 90 per cent of Earth's
- ( ) droughts, flooding and coastal erosion." A NASA spokesperson spoke of the mission's importance. She said: "It's a pivotal

# PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

1. map to mission A oceans . all world's the
2. went It space into just dawn . before
3. will Scientists from data satellite hope the help .
4. change climate is adversely levels . How changing water
5. the of spoke A mission's spokesperson importance . NASA
6. measure the water . Radar of height equipment will
7. potential water loss . Scientists will areas identify of
8. its predecessors . from upgrade technological marked A
9. accuracy . ten-fold a Give improvement us the in
10. critical understand Better the play . the oceans role

# CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

A U.S.-French satellite has been launched with a mission *to / for* map all the world's oceans, lakes, *reservoirs / reserves* rivers and other waterways. The satellite has been *dabbed / dubbed* SWOT - Surface Water and Ocean Topography. It went into space just before *drawn / dawn* on Friday. Scientists hope *datum / data* from the satellite will help them to monitor how climate change is *conversely / adversely* changing water levels. The U.S. broadcaster PBS said: "The satellite is needed more than *ever / never*, as climate change worsens *droughts / draughts*, flooding and coastal erosion." A NASA spokesperson spoke of the mission's importance. She said: "It's a *pivotal / pivot* moment....We're going to see Earth's water like we've never seen *it / all* before."

The SWOT satellite is about the size of an SUV (*sports utility / utilized* vehicle). It took 20 years to develop, at a cost *of / up* \$1.2 billion. High-*precise / precision* radar equipment will measure the height of water on more than 90 per cent of Earth's surface. It will *survey / scurvy* millions of lakes, as well as 2.1 million kilometres of rivers. Scientists will *indemnify / identify* potential areas *to / of* water loss that could *treat / threaten* local populations and coastlines. NASA said SWOT is a marked technological upgrade *from / up* its predecessors. A spokesperson said: "SWOT will give us a ten-fold improvement *on / in* the [accuracy] and spatial resolution of our measurements of water height." It will help scientists to better understand, "the *critique / critical* role the oceans play in climate change".

**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)

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\_\_ .S.-Fr\_nch s\_t\_ll\_t\_ h\_s b\_\_n l\_\_nch\_d w\_th \_  
m\_ss\_\_n t\_ m\_p \_\_ll th\_ w\_rld's \_c\_\_ns, l\_k\_s,  
r\_s\_rv\_\_rs, r\_v\_rs \_\_nd \_th\_r w\_t\_rw\_ys. Th\_ s\_t\_ll\_t\_  
h\_s b\_\_n d\_bb\_d SW\_T - S\_rf\_c\_ W\_t\_r \_\_nd \_c\_\_n  
T\_p\_gr\_ph\_y. \_\_t w\_nt \_\_nt\_ sp\_c\_ j\_st b\_f\_r\_ d\_wn \_\_n  
Fr\_d\_y. Sc\_\_nt\_sts h\_p\_ d\_t\_ fr\_m th\_ s\_t\_ll\_t\_ w\_ll  
h\_lp th\_m t\_ m\_n\_t\_r h\_w cl\_m\_t\_ ch\_ng\_ \_\_s  
\_dv\_rs\_ly ch\_ng\_ng w\_t\_r l\_v\_ls. Th\_ \_\_.S. br\_\_dc\_st\_r  
PBS s\_\_d: "Th\_ s\_t\_ll\_t\_ \_\_s n\_\_d\_d m\_r\_ th\_n \_v\_r,  
\_\_s cl\_m\_t\_ ch\_ng\_ w\_rs\_ns dr\_\_ghts, fl\_\_d\_ng \_\_nd  
c\_\_st\_l \_\_r\_s\_\_n." \_\_ N\_S\_ sp\_k\_sp\_rs\_n sp\_k\_ \_\_f th\_  
m\_ss\_\_n's \_\_mp\_rt\_nc\_. Sh\_ s\_\_d: "\_\_t's \_\_ p\_v\_t\_l  
m\_m\_nt....W'\_r\_ g\_\_ng t\_ s\_\_ \_\_rth's w\_t\_r l\_k\_ w'\_v\_  
n\_v\_r s\_\_n \_\_t b\_f\_r\_."

Th\_ SW\_T s\_t\_ll\_t\_ \_\_s \_\_b\_\_t th\_ s\_z\_ \_\_f \_\_n S\_V  
(sp\_rts \_\_t\_l\_ty v\_h\_cl\_). \_\_t t\_\_k 20 y\_\_rs t\_ d\_v\_l\_p,  
\_\_t \_\_ c\_st \_\_f \$1.2 b\_ll\_\_n. H\_gh-pr\_c\_s\_\_n r\_d\_r  
\_q\_\_pm\_nt w\_ll m\_\_s\_r\_ th\_ h\_\_ght \_\_f w\_t\_r \_\_n m\_r\_  
th\_n 90 p\_r c\_\_nt \_\_f \_\_rth's s\_rf\_c\_. \_\_t w\_ll s\_rv\_y  
m\_ll\_\_ns \_\_f l\_k\_s, \_\_s w\_ll \_\_s 2.1 m\_ll\_\_n k\_l\_m\_tr\_s  
\_\_f r\_v\_rs. Sc\_\_nt\_sts w\_ll \_\_d\_nt\_fy p\_t\_nt\_\_l \_\_r\_\_s \_\_f  
w\_t\_r l\_ss th\_t c\_\_ld thr\_\_t\_n l\_c\_l p\_p\_l\_t\_\_ns \_\_nd  
c\_\_stl\_n\_s. N\_S\_ s\_\_d SW\_T \_\_s \_\_ m\_rk\_d t\_chn\_l\_g\_c\_l  
\_pgr\_d\_ fr\_m \_\_ts pr\_d\_c\_ss\_rs. \_\_ sp\_k\_sp\_rs\_n s\_\_d:  
"SW\_T w\_ll g\_v\_ \_\_s \_\_ t\_n-f\_ld \_\_mpr\_v\_m\_nt \_\_n th\_  
[\_cc\_r\_cy] \_\_nd sp\_t\_\_l r\_s\_l\_t\_\_n \_\_f \_\_r m\_\_s\_r\_m\_nts  
\_\_f w\_t\_r h\_\_ght." \_\_t w\_ll h\_lp sc\_\_nt\_sts t\_ b\_\_tt\_r  
\_\_nd\_rst\_nd, "th\_ cr\_t\_c\_l r\_l\_ th\_ \_c\_\_ns pl\_y \_\_n  
cl\_m\_t\_ ch\_ng\_".

# PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

a usfrench satellite has been launched with a mission to map all the worlds oceans lakes reservoirs rivers and other waterways the satellite has been dubbed swot surface water and ocean topography it went into space just before dawn on friday scientists hope data from the satellite will help them to monitor how climate change is adversely changing water levels the us broadcaster pbs said the satellite is needed more than ever as climate change worsens droughts flooding and coastal erosion a nasa spokesperson spoke of the missions importance she said its a pivotal moment were going to see earths water like weve never seen it before

the swot satellite is about the size of an suv sports utility vehicle it took 20 years to develop at a cost of 12 billion highprecision radar equipment will measure the height of water on more than 90 per cent of earths surface it will survey millions of lakes as well as 21 million kilometres of rivers scientists will identify potential areas of water loss that could threaten local populations and coastlines nasa said swot is a marked technological upgrade from its predecessors a spokesperson said swot will give us a tenfold improvement in the accuracy and spatial resolution of our measurements of water height it will help scientists to better understand the critical role the oceans play in climate change

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2212/221219-swot-water-satellite.html>

A U.S.-French satellite has been launched with a mission to map all the world's oceans, lakes, reservoirs, rivers and other waterways. The satellite has been dubbed SWOT-Surface Water and Ocean Topography. It went into space just before dawn on Friday. Scientists hope data from the satellite will help them to monitor how climate change is adversely changing water levels. The U.S. broadcaster PBS said: "The satellite is needed more than ever, as climate change worsens droughts, flooding and coastal erosion." A NASA spokesperson spoke of the mission's importance. She said: "It's a pivotal moment.... We're going to see Earth's water like we've never seen it before." The SWOT satellite is about the size of an SUV (sports utility vehicle). It took 20 years to develop, at a cost of \$1.2 billion. High-precision radar equipment will measure the height of water on more than 90 percent of Earth's surface. It will survey millionsof lakes, as well as 2.1 million kilometres of rivers. Scientists will identify potential areas of water loss that could threaten local populations and coastlines. NASA said SWOT is a marked technological upgrade from its predecessors. A spokesperson said: "SWOT will give us a ten-fold improvement in the [accuracy] and spatial resolution of our measurements of water height." It will help scientists to better understand, "the critical role the oceans play in climate change".





# 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. WATER:** Make a poster about water. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. WATER WARS:** Write a magazine article about reducing water consumption now to avoid future water wars. 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 water. Ask him/her three questions about it. Give him/her three of your ideas on how to conserve it. 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 F    4 T    5 F    6 T    7 F    8 T

## SYNONYM MATCH (p.5)

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

## COMPREHENSION QUESTIONS (p.9)

1. The USA and France
2. Dawn
3. PBS
4. Coasts
5. A pivotal moment
6. \$1.2 billion
7. 90%
8. coastlines
9. 10 times
10. Climate change

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

1. A mission to map all the world's oceans.
2. It went into space just before dawn.
3. Scientists hope data from the satellite will help.
4. How climate change is adversely changing water levels.
5. A NASA spokesperson spoke of the mission's importance.
6. Radar equipment will measure the height of water.
7. Scientists will identify potential areas of water loss.
8. A marked technological upgrade from its predecessors.
9. Give us a ten-fold improvement in the accuracy.
10. Better understand the critical role the oceans play.

## MULTIPLE CHOICE - QUIZ (p.10)

1. d    2. b    3. d    4. c    5. d    6. c    7. a    8. c    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 ;-)