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Level 6 – 19th June, 2021

World's first wooden satellite tested

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

<https://breakingnewsenglish.com/2016/210619-wooden-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/2016/210619-wooden-satellite.html>

Cutting-edge technology is getting back to nature. A company has tested a new satellite that is predominantly made from plywood. The satellite is called Woodsat. It is the brainchild of engineer Jari Mäkinen, co-founder of a Finnish company called Arctic Astronautics. It is just 10cm cubed in size. He has already successfully tested his DIY, but high-tech, device in the stratosphere. He attached it to a weather balloon, which took it to an altitude of 30km above Earth - just before the endless expanse of space itself. The balloon exploded (as planned) and Woodsat safely parachuted back to Earth. Mr Mäkinen happily reported that all communications equipment survived the harsh conditions.

Mäkinen plans to launch Woodsat into space later this year. He said it was the realisation of a dream. He started a company to produce fully functional wooden replicas of orbit-ready miniature satellites called CubeSats. These are used for space research, education and hobby purposes. Mäkinen explained: "I've always enjoyed making model planes that involve a lot of wooden parts. Having worked in the space education field, this got me wondering why we don't fly any wooden materials into space." He came up with the idea for Woodsat in 2017 and "the project just snowballed". He said: "We found commercial backing, and secured a berth on an Electron launcher from Rocket Lab in New Zealand."

Sources: <https://www.cnet.com/news/first-wooden-satellite-in-the-world-aims-to-prove-plywood-can-survive-space/>
<https://scitechdaily.com/worlds-first-wooden-satellite-set-to-launch-can-plywood-survive-in-space/>
<https://www.woodworkingnetwork.com/news/woodworking-industry-news/worlds-first-wooden-satellite-passes-test-flight>
<https://www.wisaplywood.com/wisaWoodsat/>

WARM-UPS

1. SATELLITES: Students walk around the class and talk to other students about satellites. 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?

nature / satellite / plywood / brainchild / engineer / device / stratosphere / equipment plans / dream / replica / research / hobby / model planes / education / idea / space

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

3. SPACE: Students A **strongly** believe we need to spend a lot more money on exploring space; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.

4. WOOD: What are the pros and cons of these things being made from wood? Complete this table with your partner(s). Change partners often and share what you wrote.

| | Pros | Cons |
|-------------|------|------|
| Cars | | |
| Smartphones | | |
| Houses | | |
| Shoes | | |
| Pens | | |
| Jewellery | | |

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

6. CUTTING EDGE: Rank these with your partner. Put the best things at the top. Change partners often and share your rankings.

- Satellites
- Smart watches
- Fingerprint log-in
- Smart fridges
- Driverless cars
- Health apps
- Zoom
- Cashless stores

VOCABULARY MATCHING

Paragraph 1

- | | |
|------------------|--|
| 1. cutting edge | a. Increased by an amount to form a 3D (three-dimensional) shape. |
| 2. predominantly | b. The layer of the earth's atmosphere extending to about 50 km above the earth's surface. |
| 3. brainchild | c. The latest or most advanced stage in the development of something. |
| 4. cubed | d. Of a climate or conditions that are difficult to survive in. |
| 5. stratosphere | e. Mainly; for the most part. |
| 6. expanse | f. An idea or invention which is considered to be a particular person's creation. |
| 7. harsh | g. An area of something. |

Paragraph 2

- | | |
|----------------|--|
| 8. realisation | h. A place on a ship, train, plane or other means of transport. |
| 9. replica | i. The fulfillment or achievement of something desired or hoped for. |
| 10. miniature | j. An exact copy or model of something, especially one on a smaller scale. |
| 11. involve | k. Increase quickly in size, intensity, or importance. |
| 12. snowball | l. Include something as a necessary part or result. |
| 13. secured | m. Of a much smaller size than normal; very small. |
| 14. berth | n. Succeeded in getting something, especially with difficulty. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

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

1. The article says nature is becoming cutting edge. **T / F**
2. A new satellite is made entirely from wood. **T / F**
3. The satellite is one metre in width, depth and length. **T / F**
4. The balloon that took the satellite to the stratosphere exploded. **T / F**
5. The satellite's creator will launch it into space for the first time in 2023. **T / F**
6. The satellite's creator used to make model airplanes. **T / F**
7. The satellite's creator got the idea for the satellite from a snowball. **T / F**
8. The creator found a place on a rocket launcher in New Zealand. **T / F**

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

- | | |
|------------------------|----------------|
| 1. cutting edge | a. escalated |
| 2. tested | b. height |
| 3. brainchild | c. blew up |
| 4. altitude | d. copies |
| 5. exploded | e. trialled |
| 6. realisation | f. pondering |
| 7. replicas | g. advanced |
| 8. wondering | h. place |
| 9. snowballed | i. idea |
| 10. berth | j. fulfillment |

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

- | | |
|--|-------------------------|
| 1. Cutting-edge technology is getting | a. snowballed |
| 2. a new satellite that is predominantly | b. the harsh conditions |
| 3. an altitude of | c. of a dream |
| 4. safely parachuted | d. made from plywood |
| 5. all communications equipment survived | e. backing |
| 6. He said it was the realisation | f. why |
| 7. produce fully functional | g. back to nature |
| 8. this got me wondering | h. wooden replicas |
| 9. the project just | i. back to Earth |
| 10. We found commercial | j. 30km above Earth |

GAP FILL

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Cutting-edge technology is getting back to (1) _____. A company has tested a new satellite that is (2) _____ made from plywood. The satellite is called Woodsat. It is the (3) _____ of engineer Jari Makinen, co-founder of a Finnish company called Arctic Astronautics. It is just 10cm (4) _____ in size. He has already successfully tested his DIY, but high-tech, device in the (5) _____. He attached it to a weather balloon, which took it to an altitude of 30km above Earth - just before the endless (6) _____ of space itself. The balloon exploded (as planned) and Woodsat safely (7) _____ back to Earth. Mr Makinen happily reported that all communications equipment survived the (8) _____ conditions.

predominantly
cubed
parachuted
brainchild
expanse
harsh
nature
stratosphere

Makinen plans to launch Woodsat into space later this year. He said it was the (9) _____ of a dream. He started a company to produce fully functional wooden (10) _____ of orbit-ready (11) _____ satellites called CubeSats. These are used for space research, education and hobby (12) _____. Makinen explained: "I've always enjoyed making model planes that (13) _____ a lot of wooden parts. Having worked in the space education field, this got me (14) _____ why we don't fly any wooden materials into space." He came up with the idea for Woodsat in 2017 and "the project just (15) _____". He said: "We found commercial backing, and secured a (16) _____ on an Electron launcher from Rocket Lab in New Zealand."

miniature
berth
involve
realisation
purposes
snowballed
replicas
wondering

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

- 1) Cutting-edge technology is getting _____
 - a. back to nurture
 - b. back to nature
 - c. back to natural
 - d. back to neigh chair
- 2) A company has tested a new satellite that is predominantly _____
 - a. made from fly wood
 - b. made from plywood
 - c. made from play wood
 - d. made from pry wood
- 3) He has already successfully tested his DIY, but high-tech, device _____
 - a. in this atmosphere
 - b. in these rats fear
 - c. in that's rat of sphere
 - d. in the stratosphere
- 4) The balloon exploded (as planned) and Woodsat _____
 - a. safely parachute it
 - b. safety parachutes
 - c. safely parachuted
 - d. safety parachuted
- 5) Makinen happily reported that all communications equipment survived _____
 - a. the hushed conditions
 - b. the harsh conditions
 - c. the hearts conditions
 - d. the arch conditions
- 6) He started a company to produce fully functional _____
 - a. wooden replicas
 - b. wooden replicates
 - c. wooden reply case
 - d. wooden replicate
- 7) These are used for space research, education _____
 - a. and hobby porpoises
 - b. and hobby purr poses
 - c. and hobby purpose is
 - d. and hobby purposes
- 8) I've always enjoyed making model planes that involve a lot _____
 - a. of wood den parts
 - b. of wooded parts
 - c. of wooden parts
 - d. of woo den parts
- 9) He came up with the idea for Woodsat in 2017 and the _____
 - a. project just now balled
 - b. project adjust no balled
 - c. project just ennobled
 - d. project just snowballed
- 10) We found commercial backing, and _____
 - a. secured a birth
 - b. secured a berth
 - c. secured a bath
 - d. secured dab Earth

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Cutting-edge technology is getting (1) _____. A company has tested a new satellite that (2) _____ from plywood. The satellite is called Woodsat. It is the (3) _____ Jari Makinen, co-founder of a Finnish company called Arctic Astronautics. It is just 10cm (4) _____. He has already successfully tested his DIY, but high-tech, device in the stratosphere. He attached it to a weather balloon, which took it to (5) _____ 30km above Earth - just before the endless expanse of space itself. The balloon exploded (as planned) and Woodsat safely parachuted back to Earth. Mr Makinen happily reported that all communications equipment survived (6) _____.

Makinen plans to launch Woodsat into space later this year. He said it was (7) _____ a dream. He started a company to produce fully functional (8) _____ orbit-ready miniature satellites called CubeSats. These are used for space research, education and hobby purposes. Makinen explained: "I've always enjoyed making model planes that (9) _____ of wooden parts. Having worked in the (10) _____, this got me wondering why we don't fly any wooden materials into space." He came up with the idea for Woodsat in 2017 and "the (11) _____". He said: "We found commercial backing, and (12) _____ on an Electron launcher from Rocket Lab in New Zealand."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

1. What does the article say cutting-edge technology is getting back to?
2. What kind of wood is the satellite made from?
3. How big is the satellite?
4. How high up did the satellite go?
5. What happened to the balloon that the satellite was attached to?
6. When does the engineer hope to launch the satellite into space?
7. What are CubeSats used for besides education and hobbies?
8. What did the engineer used to enjoy making?
9. When did the engineer come up with the idea for Woodsat?
10. Where has the engineer secured a berth for launching his satellite?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

- 1) What does the article say cutting-edge technology is getting back to?
 - a) basics
 - b) nature
 - c) brass tacks
 - d) the beginning of time
- 2) What kind of wood is the satellite made from?
 - a) mahogany
 - b) pine
 - c) cedar
 - d) plywood
- 3) How big is the satellite?
 - a) 10cm cubed
 - b) huge
 - c) 10 metres across
 - d) just one metre
- 4) How high up did the satellite go?
 - a) 15km
 - b) 20km
 - c) 30km
 - d) 8km
- 5) What happened to the balloon that the satellite was attached to?
 - a) it vaporised
 - b) it exploded
 - c) it burnt up upon re-entry
 - d) it disappeared into space
- 6) When does the engineer hope to launch the satellite into space?
 - a) later this year
 - b) very soon
 - c) in 2023
 - d) when it's finished
- 7) What are CubeSats used for besides education and hobbies?
 - a) GPS
 - b) trigonometry
 - c) space research
 - d) hobbyists
- 8) What did the engineer used to enjoy making?
 - a) model planes
 - b) cakes
 - c) paper planes
 - d) space rockets
- 9) When did the engineer come up with the idea for Woodsat?
 - a) 2017
 - b) 2016
 - c) 2018
 - d) 2020
- 10) Where has the engineer secured a berth for launching his satellite?
 - a) Florida
 - b) Patagonia
 - c) Siberia
 - d) New Zealand

ROLE PLAY

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Role A – Satellites

You think satellites are the best examples of cutting-edge technology. Tell the others three reasons why. Tell them why their things aren't as good. Also, tell the others which is the least useful of these (and why): smart fridges, driverless cars or Zoom.

Role B – Smart Fridges

You think smart fridges are the best examples of cutting-edge technology. Tell the others three reasons why. Tell them why their things aren't as good. Also, tell the others which is the least useful of these (and why): satellites, driverless cars or Zoom.

Role C – Driverless Cars

You think driverless cars are the best examples of cutting-edge technology. Tell the others three reasons why. Tell them why their things aren't as good. Also, tell the others which is the least useful of these (and why): smart fridges, satellites or Zoom.

Role D – Zoom

You think Zoom is the best example of cutting-edge technology. Tell the others three reasons why. Tell them why their things aren't as good. Also, tell the others which is the least useful of these (and why): smart fridges, driverless cars or satellites.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

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

| | |
|-------------|------------------|
| wood | satellite |
|-------------|------------------|

- 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">• nature• plywood• cubed• altitude• back• harsh | <ul style="list-style-type: none">• launch• fully• hobby• involve• idea• commercial |
|--|--|

SATELLITES SURVEY

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Write five GOOD questions about satellites 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.

SATELLITES 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 'wood'?
3. What do you think of cutting-edge technology?
4. What do you know about satellites?
5. What do you think of wooden satellites?
6. What do you know about the stratosphere?
7. What could the wooden satellite be used for?
8. How might wood change space technology?
9. Should more, everyday things be made from wood?
10. Was the world better before satellites and going into space?

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SATELLITES 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 are your dreams?
15. What do we need to research about space?
16. What things do you enjoy making?
17. Would you like to go into space?
18. Should we protect trees from being used for satellites?
19. What will technology look like in 100 years from now?
20. What questions would you like to ask the designer?

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/2016/210619-wooden-satellite.html>

Cutting-edge technology is getting back to (1) _____. A company has tested a new satellite that is predominantly made from plywood. The satellite is called Woodsat. It is the (2) _____ of engineer Jari Makinen, co-founder of a Finnish company called Arctic Astronautics. It is just 10cm (3) _____ in size. He has already successfully tested his DIY, but high-tech, device in the stratosphere. He attached it to a weather balloon, which took it to an (4) _____ of 30km above Earth - just before the endless (5) _____ of space itself. The balloon exploded (as planned) and Woodsat safely parachuted back to Earth. Mr Makinen happily reported that all communications equipment survived the (6) _____ conditions.

Makinen plans to launch Woodsat into space later this year. He said it was the realisation (7) _____ a dream. He started a company to produce fully functional wooden replicas of orbit-(8) _____ miniature satellites called CubeSats. These are used for space research, education and hobby purposes. Makinen explained: "I've always enjoyed making model planes (9) _____ involve a lot of wooden parts. Having worked in the space education field, this got me wondering why we don't fly any wooden materials into space." He came (10) _____ with the idea for Woodsat in 2017 and "the project just (11) _____". He said: "We found commercial backing, and secured a (12) _____ on an Electron launcher from Rocket Lab in New Zealand."

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

- | | | | | |
|-----|----------------|----------------|---------------|----------------|
| 1. | (a) maturity | (b) nurture | (c) nature | (d) mature |
| 2. | (a) brainchild | (b) lovechild | (c) moonchild | (d) grandchild |
| 3. | (a) cubed | (b) cabled | (c) camped | (d) combed |
| 4. | (a) altitude | (b) amplitude | (c) attitude | (d) astute |
| 5. | (a) rollout | (b) envision | (c) zone | (d) expanse |
| 6. | (a) border | (b) edgy | (c) airy | (d) harsh |
| 7. | (a) of | (b) to | (c) on | (d) in |
| 8. | (a) steady | (b) reality | (c) really | (d) ready |
| 9. | (a) that | (b) what | (c) so | (d) who |
| 10. | (a) over | (b) up | (c) down | (d) across |
| 11. | (a) blizzard | (b) snowballed | (c) froze | (d) iced |
| 12. | (a) berth | (b) planet | (c) gravity | (d) orbit |

SPELLING

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Paragraph 1

1. It is just 10cm cdebu in size
2. in the reattorsehs
3. the endless spaeexn of space
4. safely tarduacpeh back to Earth
5. all communications mntqeeipu
6. survived the hhsra conditions

Paragraph 2

7. the etrlanasoii of a dream
8. fully functional wooden eicarlps
9. orbit-ready uanmtriie satellites
10. planes that noilevv a lot of wooden parts
11. macocrleni backing
12. secured a ebhrt

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Number these lines in the correct order.

- () balloon, which took it to an altitude of 30km above Earth - just before the endless
- () ready miniature satellites called CubeSats. These are used for space research, education and hobby
- () back to Earth. Mr Makinen happily reported that all communications equipment survived the harsh conditions.
- () expanse of space itself. The balloon exploded (as planned) and Woodsat safely parachuted
- () purposes. Makinen explained: "I've always enjoyed making model planes that involve a lot of wooden
- () backing, and secured a berth on an Electron launcher from Rocket Lab in New Zealand."
- () made from plywood. The satellite is called Woodsat. It is the brainchild of engineer Jari Makinen, co-
- () size. He has already successfully tested his DIY, but high-tech, device in the stratosphere. He attached it to a weather
- () up with the idea for Woodsat in 2017 and "the project just snowballed". He said: "We found commercial
- (**1**) Cutting-edge technology is getting back to nature. A company has tested a new satellite that is predominantly
- () founder of a Finnish company called Arctic Astronautics. It is just 10cm cubed in
- () dream. He started a company to produce fully functional wooden replicas of orbit-
- () parts. Having worked in the space education field, this got me wondering why we don't fly any wooden materials into space." He came
- () Makinen plans to launch Woodsat into space later this year. He said it was the realisation of a

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

1. is to nature . technology getting back Cutting-edge
2. made from that plywood . is satellite predominantly A
3. in cubed is It size . 10cm just
4. before of expanse the space endless itself . Just
5. harsh communications All conditions . survived equipment the
6. space launch Makinen Woodsat into to plans later .
7. replicas . A wooden fully functional to produce company
8. wooden a involve parts . of that Planes lot
9. space . We any materials don't fly wooden into
10. up came the with He Woodsat . for idea

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Cutting-edge technology is getting back to *nurture / nature*. A company has tested a new satellite that is *preeminently / predominantly* made from plywood. The satellite is called Woodsat. It is the *brainchild / brainy* of engineer Jari Makinen, co-founder of a *finish / Finnish* company called Arctic Astronautics. It is just 10cm *cubed / coped* in size. He has already successfully tested his DIY, but high-tech, device *on / in* the stratosphere. He attached it to a weather balloon, which took it to an *attitude / altitude* of 30km above Earth - just before the endless *expanse / spouse* of space itself. The balloon exploded (as planned) and Woodsat safely *paralleled / parachuted* back to Earth. Mr Makinen happily reported that all communications equipment survived the *hushed / harsh* conditions.

Makinen plans to launch Woodsat *into / onto* space later this year. He said it was the realisation of a dream. He started a company to produce *fluffy / fully* functional wooden replicas of orbit-ready *nomenclature / miniature* satellites called CubeSats. These are used for space research, education and hobby *porpoises / purposes*. Makinen explained: "I've always enjoyed making model planes that *involve / revolve* a lot of wooden parts. Having worked in the space education *patch / field*, this got me *wondering / wandering* why we don't fly any wooden materials into space." He came *down / up* with the idea for Woodsat in 2017 and "the project just *froze / snowballed*". He said: "We found commercial backing, and secured a *bunch / berth* on an Electron launcher from Rocket Lab in New Zealand."

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

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

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

C_tting-dg_ t_chn_l_gy _s g_tt_ng b_ck t_ n_t_r_. _
c_mp_ny h_s t_st_d _ n_w s_t_ll_t_ th_t _s
pr_d_m_n_ntly m_d_ fr_m plyw__d. Th_ s_t_ll_t_ _s
c_ll_d W__ds_t. _t _s th_ br__nch_ld _f _ng_n__r J_r_
M_k_n_n, c_f__nd_r _f _ F_nn_sh c_mp_ny c_ll_d
_rct_c _str_n__t_cs. _t _s j_st 10cm c_b_d _n s_z_.
H_ h_s _lr__dy s_cc_ssf_lly t_st_d h_s D_Y, b_t h_gh-
t_ch, d_v_c_ _n th_ str_t_sph_r_. H_ _tt_ch_d _t t_ _
w__th_r b_ll__n, wh_ch t__k _t t_ _n _lt_t_d _f
30km _b_v_ __rth - j_st b_f_r_ th_ _ndl_ss _xp_ns_
_f sp_c_ _ts_lf. Th_ b_ll__n _xpl_d_d (_s pl_nn_d) _nd
W__ds_t s_f_ly p_r_ch_t_d b_ck t_ __rth. Mr M_k_n_n
h_pp_ly r_p_rtd th_t _ll c_mm_n_c_t__ns _q__pm_nt
s_rv_v_d th_ h_rsh c_nd_t__ns.

M_k_n_n pl_ns t_ l__nch W__ds_t _nt_ sp_c_ l_t_r
th_s y__r. H_ s__d _t w_s th_ r__l_s_t__n _f _
dr__m. H_ st_rtd _ c_mp_ny t_ pr_d_c_ f_lly
f_nct__n_l w__d_n r_pl_c_s _f _rb_t-r__dy m_n__t_r_
s_t_ll_t_s c_ll_d C_b_S_ts. Th_s_ _r_ _s_d f_r sp_c_
r_s__rch, _d_c_t__n _nd h_bby p_r_p_s_s. M_k_n_n
_xpl__n_d: "'v_ _lw_ys _nj_y_d m_k_ng m_d_l pl_ns
th_t _nv_lv_ _ l_t _f w__d_n p_rts. H_v_ng w_rk_d _n
th_ sp_c_ _d_c_t__n f__ld, th_s g_t m_ w_nd_r_ng why
w_ d_n't fly _ny w__d_n m_t_r__ls _nt_ sp_c_." H_
c_m_ _p w_th th_ _d__ f_r W__ds_t _n 2017 _nd "th_
pr_j_ct j_st sn_wb_ll_d". H_ s__d: "W_ f__nd
c_mm_rc__l b_ck_ng, _nd s_c_r_d _ b_rth _n _n
_l_ctr_n l__nch_r fr_m R_ck_t L_b _n N_w Z__l_nd."

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

cuttingedge technology is getting back to nature a company has tested a new satellite that is predominantly made from plywood the satellite is called woodsat it is the brainchild of engineer jari makinen cofounder of a finnish company called arctic astronautics it is just 10cm cubed in size he has already successfully tested his diy but hightech device in the stratosphere he attached it to a weather balloon which took it to an altitude of 30km above earth just before the endless expanse of space itself the balloon exploded as planned and woodsat safely parachuted back to earth mr makinen happily reported that all communications equipment survived the harsh conditions makinen plans to launch woodsat into space later this year he said it was the realisation of a dream he started a company to produce fully functional wooden replicas of orbitready miniature satellites called cubesats these are used for space research education and hobby purposes makinen explained ive always enjoyed making model planes that involve a lot of wooden parts having worked in the space education field this got me wondering why we dont fly any wooden materials into space he came up with the idea for woodsat in 2017 and the project just snowballed he said we found commercial backing and secured a berth on an electron launcher from rocket lab in new zealand

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2016/210619-wooden-satellite.html>

Cutting-edge technology is getting back to nature. A company has tested a new satellite that is predominantly made from plywood. The satellite is called Woodsat. It is the brainchild of engineer Jari Mäkinen, co-founder of a Finnish company called Arctic Astronautics. It is just 10 cm cubed in size. He has already successfully tested his DIY, but high-tech, device in the stratosphere. He attached it to a weather balloon, which took it to an altitude of 30 km above Earth - just before the endless expanse of space itself. The balloon exploded (as planned) and Woodsat safely parachuted back to Earth. Mr Mäkinen happily reported that all communication equipment survived the harsh conditions. Mäkinen plans to launch Woodsat into space later this year. He said it was the realisation of a dream. He started a company to produce fully functional wooden replicas for orbit-ready miniature satellites called CubeSats. These are used for space research, education and hobby purposes. Mäkinen explained: "I've always enjoyed making model planes that involve a lot of wooden parts. Having worked in the space education field, this got me wondering why we don't fly any wooden materials into space." He came up with the idea for Woodsat in 2017 and "the project just snowballed". He said: "We found commercial backing, and secured a berth on an Electron launcher from Rocket Lab in New Zealand."

HOMWORK

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. SATELLITES: Make a poster about satellites. Show your work to your classmates in the next lesson. Did you all have similar things?

4. WOOD: Write a magazine article about using sustainable wood sources to replace plastics and metals in the things we use every day. 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 satellites. Ask him/her three questions about them. Give him/her three of your ideas on how we can use wood more. 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. i | 4. b | 5. c |
| 6. j | 7. d | 8. f | 9. a | 10. h |

COMPREHENSION QUESTIONS (p.9)

- Nature
- Plywood
- 10cm cubed
- 30km
- It exploded
- Later this year
- Space research
- Model planes
- 2017
- New Zealand

WORDS IN THE RIGHT ORDER (p.19)

- Cutting-edge technology is getting back to nature.
- A satellite that is predominantly made from plywood.
- It is just 10cm cubed in size.
- Just before the endless expanse of space itself.
- All communications equipment survived the harsh conditions.
- Makinen plans to launch Woodsat into space later.
- A company to produce fully functional wooden replicas.
- Planes that involve a lot of wooden parts.
- We don't fly any wooden materials into space.
- He came up with the idea for Woodsat.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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