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Level 3 – 17th January, 2019

China grows plants on the moon

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<https://breakingnewsenglish.com/1901/190117-ecology.html>

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Please try Levels 0, 1 and 2 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

For the first time ever, plants from Earth are growing on the moon. The China National Space Administration showed photos of cotton seeds sprouting into life. The administration said the cotton plants were among several plants that were "growing well". Other plants that are now growing on the moon are potatoes, rock cress and rapeseed. The plants are part of a project on China's space mission to the far side of the moon. The project is called a "moon surface micro-ecological circle". Project leader Liu Hanlong says the cotton seeds were the first to sprout. He said the plants were chosen because they were small, strong and could grow in the difficult conditions on the moon's surface.

Professor Hanlong said the project's aim was to understand more about how plants grow outside of Earth. The long-term aim is to develop plants that can grow on the moon or on planets like Mars. The professor said: "We have given consideration to future survival in space. Learning about these plants growing in a low-gravity environment would allow us to lay the foundation for our future establishment of a space base." The project also includes yeast and fruit flies. The professor hopes the six organisms in the project will make up a mini-ecosystem. The plants will produce oxygen and food for the fruit flies, and the yeast could manage the flies' waste and the dead plants to provide another food source.

Sources: <https://www.scmp.com/news/china/science/article/2182111/chinese-lunar-landers-cotton-seeds-lead-way-plant-life-germinates>
<https://www.newscientist.com/article/2190704-first-moon-plants-sprout-in-chinas-change-4-biosphere-experiment/>
<https://www.bbc.com/news/world-asia-china-46873526>

WARM-UPS

1. ECOLOGY: Students walk around the class and talk to other students about ecology. 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?

the first time / Earth / cotton / seeds / plants / potatoes / project / mission / surface / aim / long-term / planets / survival / gravity / foundation / yeast / fruit flies / food

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

3. MOON FOOD: Students A **strongly** believe food from the moon will be important for our survival; Students B **strongly** believe it won't. Change partners again and talk about your conversations.

4. THE MOON: What things could we do on the moon? What could go wrong? Complete this table with your partner(s). Change partners often and share what you wrote.

	Possibilities	What could go wrong?
Growing food		
Accommodation		
Tourism		
Mining		
Waste disposal		
Your idea _____		

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

6. PLANTS: Rank these with your partner. Put the most useful plants at the top. Change partners often and share your rankings.

- cotton
- potatoes
- cactus
- banana
- wheat
- bamboo
- garlic
- roses

VOCABULARY MATCHING

Paragraph 1

- | | |
|-------------------|---|
| 1. seed | a. Start growing. |
| 2. sprouting | b. The level top of something. |
| 3. administration | c. The people who control an organization; an organization. |
| 4. several | d. The small thing inside a flower or plant that drops to the ground and grows a new flower or plant. |
| 5. plant | e. A small number larger than two. |
| 6. mission | f. A living thing (e.g. trees, shrubs, herbs, grasses, ferns, and mosses) change CO2 into O2. |
| 7. surface | g. An important project for political, religious, or commercial reasons. |

Paragraph 2

- | | |
|----------------|--|
| 8. long-term | h. An individual animal, plant, or single-celled life form. |
| 9. aim | i. The basic part of something. |
| 10. develop | j. The thing that keeps us on Earth and stops us floating away. |
| 11. gravity | k. Happening over or about a long period of time. |
| 12. foundation | l. What the body (or animal) puts into the toilet after eating food or drinking water. |
| 13. organism | m. A purpose or plan; something you want to reach. |
| 14. waste | n. Grow or cause to grow and become more mature. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

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

- a. Plants have never grown on the moon before this mission. **T / F**
- b. Chinese scientists showed photos of moss growing on the moon. **T / F**
- c. The plants are growing on the far side of the moon. **T / F**
- d. Cotton seeds were the first plants to sprout. **T / F**
- e. Scientists said their long-term aim is to grow plants on Mars. **T / F**
- f. Scientists said there are no chances of survival in space. **T / F**
- g. There are sixty different organisms in the Chinese eco-system project. **T / F**
- h. The article said dead plants will be used to provide oxygen for fruit flies. **T / F**

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

- | | |
|--------------------------|-----------------|
| 1. ever | a. goal |
| 2. sprouting | b. trip |
| 3. administration | c. selected |
| 4. mission | d. setting up |
| 5. chosen | e. springing up |
| 6. aim | f. thought |
| 7. consideration | g. in history |
| 8. allow | h. give |
| 9. establishment | i. let |
| 10. provide | j. management |

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

- | | |
|-----------------------------------|--------------------------|
| 1. For the first | a. conditions |
| 2. among several plants that | b. and food |
| 3. the far side | c. surface |
| 4. grow in the difficult | d. about how plants grow |
| 5. on the moon's | e. of the moon |
| 6. understand more | f. for our future |
| 7. growing in a low- | g. time ever |
| 8. lay the foundation | h. source |
| 9. The plants will produce oxygen | i. gravity environment |
| 10. provide another food | j. were "growing well" |

GAP FILL

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

For the first time ever, plants from Earth are (1) _____ on the moon. The China National Space Administration showed photos of cotton seeds sprouting into (2) _____. The administration said the cotton plants were (3) _____ several plants that were "growing well". Other plants that are now growing on the moon are potatoes, rock cress and rapeseed. The plants are part of a (4) _____ on China's space mission to the far side of the moon. The project is called a "moon surface micro-ecological (5) _____". Project leader Liu Hanlong says the cotton seeds were the (6) _____ to sprout. He said the plants were (7) _____ because they were small, strong and could grow in the difficult conditions on the moon's (8) _____.

among
growing
first
project
chosen
life
surface
circle

Professor Hanlong said the project's (9) _____ was to understand more about how plants grow outside of Earth. The long-term aim is to (10) _____ plants that can grow on the moon or on planets like Mars. The professor said: "We have given consideration to future (11) _____ in space. Learning about these plants growing in a low-(12) _____ environment would allow us to lay the foundation for our future establishment of a space (13) _____." The project also includes yeast and fruit flies. The professor hopes the six (14) _____ in the project will make up a mini-ecosystem. The plants will produce oxygen and food for the fruit flies, and the yeast could manage the flies' (15) _____ and the dead plants to provide another food (16) _____.

organisms
develop
gravity
source
aim
waste
base
survival

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

- 1) For the first time ever, plants from Earth are _____ moon
 - a. grown on the
 - b. grow in on the
 - c. growing on the
 - d. grown in on the
- 2) China National Space Administration showed photos of cotton seeds _____ life
 - a. sprouting in two
 - b. sprout in into
 - c. sprout thing into
 - d. sprouting into
- 3) The administration said the cotton plants were among _____
 - a. several supplants
 - b. several implants
 - c. several plants
 - d. several complaints
- 4) Project leader Liu Hanlong says the cotton seeds were _____ sprout
 - a. the first thru
 - b. the first two
 - c. the first too
 - d. the first to
- 5) strong and could grow in the difficult conditions on _____
 - a. the moon's surf ice
 - b. the moon's surf face
 - c. the moon's surface
 - d. the moon's serf ace
- 6) the project's aim was to understand more about how plants _____ Earth
 - a. grown outside of
 - b. growth outside of
 - c. growing outside of
 - d. grow outside of
- 7) long-term aim is to develop plants that can grow on the moon or _____ Mars
 - a. on planets like
 - b. on plants like
 - c. on plan nets like
 - d. on plain nets like
- 8) allow us to lay the foundation for our future establishment of _____
 - a. a space pace
 - b. a space face
 - c. a space race
 - d. a space base
- 9) The professor hopes the six organisms in the project will make up a _____
 - a. mini key system
 - b. mini-echo system
 - c. mini ego system
 - d. mini-ecosystem
- 10) yeast could manage the flies' waste and the dead plants to provide another _____
 - a. food source
 - b. food sauce
 - c. food sours
 - d. food sass

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

For the (1) _____, plants from Earth are growing on the moon. The China National Space Administration showed photos of cotton seeds (2) _____. The administration said the cotton plants were among several plants that were "growing well". Other plants that are now (3) _____ moon are potatoes, rock cress and rapeseed. The plants are part (4) _____ on China's space mission to (5) _____ of the moon. The project is called a "moon surface micro-ecological circle". Project leader Liu Hanlong says the cotton seeds were the first to sprout. He said the plants were chosen because they were small, strong and could grow in the difficult conditions on (6) _____.

Professor Hanlong said the project's aim (7) _____ more about how plants grow outside of Earth. The long-term aim is to develop plants that can grow on the moon (8) _____ like Mars. The professor said: "We have given consideration to (9) _____ space. Learning about these plants growing in a low-gravity environment would allow us to lay the foundation for our future establishment of a space base." The project (10) _____ and fruit flies. The professor hopes the six (11) _____ project will make up a mini-ecosystem. The plants will produce oxygen and food for the fruit flies, and the yeast could manage the (12) _____ the dead plants to provide another food source.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

1. What seeds were the first to sprout?
2. What is the largest vegetable that is now growing on the moon?
3. Where on the moon are the plants growing?
4. Why were the plants chosen for this mission?
5. What did the article say about the conditions on the moon's surface?
6. Where do the scientists hope to grow vegetables in the future?
7. What have the scientists considered regarding the future?
8. What do the scientists want to establish in the future?
9. How many organisms did the scientists take to the moon?
10. What will the plants provide for the fruit flies besides food?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

- 1) What seeds were the first to sprout?
 - a) rapeseed
 - b) potatoes
 - c) cress
 - d) cotton seeds
- 2) What is the largest vegetable that is now growing on the moon?
 - a) pumpkins
 - b) potatoes
 - c) carrots
 - d) tomatoes
- 3) Where on the moon are the plants growing?
 - a) where an Apollo spacecraft landed
 - b) the part nearest to Earth
 - c) the far side of the moon
 - d) in a crater
- 4) Why were the plants chosen for this mission?
 - a) they were small and strong
 - b) they were tasty
 - c) they can grow without water
 - d) they don't need light
- 5) What did the article say about the conditions on the moon's surface?
 - a) they are favorable
 - b) nothing
 - c) they are difficult
 - d) they are hostile
- 6) Where do the scientists hope to grow vegetables in the future?
 - a) in the desert
 - b) the moon, or planets like Mars
 - c) in space
 - d) on a space station
- 7) What have the scientists considered regarding the future?
 - a) creating new types of vegetables
 - b) moon farms
 - c) space farms
 - d) out future survival in space
- 8) What do the scientists want to establish in the future?
 - a) a moon base
 - b) a giant potato
 - c) moon farms
 - d) a new vegetable
- 9) How many organisms did the scientists take to the moon?
 - a) four
 - b) five
 - c) six
 - d) seven
- 10) What will the plants provide for the fruit flies besides food?
 - a) nitrogen
 - b) oxygen
 - c) CO₂
 - d) NaCl

ROLE PLAY

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

Role A – Cotton

You think cotton is the world's most useful plant. Tell the others three reasons why. Tell them what is wrong with their plants. Also, tell the others which is the least useful of these (and why): potatoes, bamboo or roses.

Role B – Potatoes

You think potatoes are the world's most useful plant. Tell the others three reasons why. Tell them what is wrong with their plants. Also, tell the others which is the least useful of these (and why): cotton, bamboo or roses.

Role C – Bamboo

You think bamboo is the world's most useful plant. Tell the others three reasons why. Tell them what is wrong with their plants. Also, tell the others which is the least useful of these (and why): potatoes, cotton or roses.

Role D – Roses

You think roses is the world's most useful plant. Tell the others three reasons why. Tell them what is wrong with their plants. Also, tell the others which is the least useful of these (and why): potatoes, bamboo or cotton.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

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

grow	plants
-------------	---------------

- 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">• ever• life• other• part• circle• difficult	<ul style="list-style-type: none">• understand• planets• survival• low• six• dead
---	--

ECOLOGY SURVEY

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

Write five GOOD questions about ecology 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.

ECOLOGY 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 'grow'?
3. What do you think of plants growing on the moon?
4. Would you eat plants grown on the moon?
5. What do you know about the cotton plant?
6. What problems might plants have growing on the moon?
7. What are your favorite plants?
8. Why might moon plants be dangerous?
9. What do you think of starting farms on the moon?
10. Would you like to live on the moon?

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ECOLOGY 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 'plant'?
13. What do you think about what you read?
14. Why are scientists doing this project?
15. Will we have to live in space in the future?
16. What do you think of space tourism?
17. What do you know about yeast?
18. What do you know about eco-systems?
19. Would you eat a new food source developed on the moon?
20. What questions would you like to ask the project leader?

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/1901/190117-ecology.html>

For the first time (1) _____, plants from Earth are growing on the moon. The China National Space Administration showed photos of cotton seeds (2) _____ into life. The administration said the cotton plants were (3) _____ several plants that were "growing well". Other plants that are now growing on the moon are potatoes, rock cress and rapeseed. The plants are (4) _____ of a project on China's space mission to the far side of the moon. The project is called a "moon surface micro-ecological circle". Project leader Liu Hanlong says the cotton seeds were the (5) _____ to sprout. He said the plants were chosen because they were small, strong and could grow in the difficult conditions on the moon's (6) _____.

Professor Hanlong said the project's aim was to understand more about how plants (7) _____ outside of Earth. The long-term aim is to develop plants that can grow on the moon or on planets like Mars. The professor said: "We have (8) _____ consideration to future survival in space. Learning about these plants growing in a low-gravity environment would allow us to (9) _____ the foundation for our future establishment of a space base." The project also includes yeast and fruit flies. The professor hopes the six organisms in the project will make (10) _____ a mini-ecosystem. The plants will (11) _____ oxygen and food for the fruit flies, and the yeast could manage the flies' (12) _____ and the dead plants to provide another food source.

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

- | | | | | |
|-----|--------------|-------------|-----------------|---------------|
| 1. | (a) ever | (b) every | (c) never | (d) overall |
| 2. | (a) sprouted | (b) sprouts | (c) sprouting | (d) sprout |
| 3. | (a) between | (b) inside | (c) among | (d) under |
| 4. | (a) parts | (b) party | (c) partner | (d) part |
| 5. | (a) first | (b) firstly | (c) firsts | (d) firsthand |
| 6. | (a) level | (b) surface | (c) flat | (d) top |
| 7. | (a) grown | (b) grower | (c) growth | (d) grow |
| 8. | (a) done | (b) given | (c) taken | (d) had |
| 9. | (a) lie | (b) let | (c) lay | (d) lab |
| 10. | (a) down | (b) on | (c) in | (d) up |
| 11. | (a) mix | (b) blend | (c) manufacture | (d) produce |
| 12. | (a) swat | (b) waste | (c) waster | (d) wasted |

SPELLING

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

Paragraph 1

1. photos of cotton edsse sprouting
2. among eavsrel plants
3. part of a ceprtoj
4. space sinsimo to the far side of the moon
5. grow in the difficult incntodio
6. on the moon's cfsaure

Paragraph 2

7. leevdpo plants that can grow
8. future vrsivula in space
9. a low-gayirtv environment
10. lay the toofdnunia for our future
11. The plants will odcurep oxygen
12. provide another food sruoce

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

Number these lines in the correct order.

- () were small, strong and could grow in the difficult conditions on the moon's surface.
- () in the project will make up a mini-ecosystem. The plants will produce oxygen and food for the fruit
- () of the moon. The project is called a "moon surface micro-ecological circle". Project
- () like Mars. The professor said: "We have given consideration to future survival in space. Learning about these
- (**1**) For the first time ever, plants from Earth are growing on the moon. The China National Space Administration showed
- () leader Liu Hanlong says the cotton seeds were the first to sprout. He said the plants were chosen because they
- () Professor Hanlong said the project's aim was to understand more about how plants grow
- () base." The project also includes yeast and fruit flies. The professor hopes the six organisms
- () several plants that were "growing well". Other plants that are now growing on the moon are potatoes, rock cress
- () and rapeseed. The plants are part of a project on China's space mission to the far side
- () outside of Earth. The long-term aim is to develop plants that can grow on the moon or on planets
- () flies, and the yeast could manage the flies' waste and the dead plants to provide another food source.
- () photos of cotton seeds sprouting into life. The administration said the cotton plants were among
- () plants growing in a low-gravity environment would allow us to lay the foundation for our future establishment of a space

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

1. on growing that moon . Other are the plants
2. of side moon . far the Mission the to
3. sprout . The first were seeds to the cotton
4. because The were they small . chosen plants were
5. difficult the on surface . conditions the In moon's
6. was to understand more . aim project's The
7. environment . growing These a in plants low-gravity
8. base . future space a of establishment our For
9. organisms in the mini-ecosystem . Six a project make
10. yeast flies' manage The the could waste .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

For the first time *never / ever*, plants from Earth are growing on the moon. The China National Space Administration showed *photo / photos* of cotton seeds *sprouting / sprouted* into life. The administration said the cotton plants were *among / between* several plants that were "growing well". Other plants that are now *growing / growth* on the moon are potatoes, rock cress and rapeseed. The plants are *part / party* of a project on China's space mission to the *far / farm* side of the moon. The project is called a "moon surface micro-ecological circle". Project *leadership / leader* Liu Hanlong says the cotton seeds *were / was* the first to sprout. He said the plants were chosen because they were small, strong and could grow in the difficult conditions *on / in* the moon's surface.

Professor Hanlong said the project's *arm / aim* was to understand more about how plants *growing / grow* outside of Earth. The long-term aim is to develop plants that can grow on the moon or on *plants / planets* like Mars. The professor said: "We have *given / lack* consideration to future survival *on / in* space. Learning about these plants growing in a low-gravity environment would allow us to *play / lay* the foundation for our future establishment of a space base." The project also includes yeast and fruit flies. The professor hopes the six organisms in the project will make up a mini-ecosystem. The plants will produce oxygen and food for the fruit flies, and the yeast could manage the flies' waste and the dead plants to provide another food source.

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/1901/190117-ecology.html>

F_r t_h f_r s_t t_m _v_r , p_l_n_t_s f_r_m E_r t_h
_r_g_r_w_n_g _n t_h m__n . Th_ Ch_n N_t__n_l
S_p_c_ A_d_m_n_s_t_r_t__n s_h_w_d p_h_t_s _f c_t_t_n
s__d_s s_p_r__t_n_g _n_t_l_f_ . Th_ _d_m_n_s_t_r_t__
n s__d t_h c_t_t_n p_l_n_t_s w_r__m_n_g s_v_r_l
p_l_n_t_s t_h_t w_r_ "g_r_w_n_g w_l_l" . O_t_h_r p
l_n_t_s t_h_t _r_n_w g_r_w_n_g _n t_h m__n _r_
p_t_t__s , r_c_k c_r_s_s _n_d r_p_s__d . Th_ p_l_n_t
s _r_p_r_t _f _p_r_j_c_t _n Ch_n_'s s_p_c_ m_s
s__n t_ t_h_f_r s_d _f t_h m__n . Th_ p_r_j_c_t
_s c_l_l_d _ "m__n s_r_f_c_ m_c_r_-c_l_g_c_l c_r_c
l_" . P_r_j_c_t l__d_r L__ H_n_l_n_g s_y_s t_h c_t
t_n s__d_s w_r_ t_h_f_r_s_t t_s_p_r__t . H_ s__d
t_h_p_l_n_t_s w_r_ c_h_s_n b_c__s_ t_h_y w_r_ s_m_l
l , s_t_r_n_g _n_d c__l_d g_r_w _n t_h_d_f_f_c_l_t
c_n_d_t__n_s _n t_h m__n's s_r_f_c_ .

P_r_f_s_s_r H_n_l_n_g s__d t_h p_r_j_c_t's __m
w_s t_n_d_r_s_t_n_d m_r_ _b__t h_w p_l_n_t_s g
r_w __t_s_d _f E_r t_h . Th_ l_n_g - t_r_m __m _s
t_d_v_l_p p_l_n_t_s t_h_t c_n g_r_w _n t_h m__n
_r_n p_l_n_t_s l_k_ M_r_s . Th_ p_r_f_s_s_r s__d :
" W_ h_v_ g_v_n c_n_s_d_r_t__n t_f_t_r_ s_r_v_v_l
_n s_p_c_ . L__r_n_n_g _b__t t_h_s_ p_l_n_t_s g_r_w
_n _l_w - g_r_v_t_y _n_v_r_n_m_n_t w__l_d _l_l_w _s
t_l_y t_h_f__n_d_t__n f_r __r f_t_r_ _s_t_b_l_s_h
m_n_t _f _s_p_c_ b_s_ . " Th_ p_r_j_c_t _l_s_ _n_c
l_d_s y__s_t _n_d f_r__t f_l__s . P_r_f_s_s_r h_p_s
t_h_s_x _r_g_n_s_m_s _n t_h p_r_j_c_t w_l_l m_k_ _p
_m_n_-c_s_y_s_t_m . Th_ p_l_n_t_s w_l_l p_r_d_c_ _x
y_g_n _n_d f__d f_r t_h_f_r__t f_l__s , _n_d t_h_
y__s_t c__l_d m_n_g_ t_h_f_l__s' w_s_t_ _n_d t_h_
d__d p_l_n_t_s t_p_r_v_d_ _n_t_h_r f__d s__r_c_ .

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

for the first time ever plants from earth are growing on the moon the china national space administration showed photos of cotton seeds sprouting into life the administration said the cotton plants were among several plants that were growing well other plants that are now growing on the moon are potatoes rock cress and rapeseed the plants are part of a project on chinas space mission to the far side of the moon the project is called a moon surface microecological circle project leader liu hanlong says the cotton seeds were the first to sprout he said the plants were chosen because they were small strong and could grow in the difficult conditions on the moons surface

professor hanlong said the projects aim was to understand more about how plants grow outside of earth the longterm aim is to develop plants that can grow on the moon or on planets like mars the professor said we have given consideration to future survival in space learning about these plants growing in a lowgravity environment would allow us to lay the foundation for our future establishment of a space base the project also includes yeast and fruit flies The professor hopes the six organisms in the project will make up a miniecosystem the plants will produce oxygen and food for the fruit flies and the yeast could manage the flies waste and the dead plants to provide another food source

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1901/190117-ecology.html>

For the first time ever, plants from Earth are growing on the moon. The China National Space Administration showed photos of cotton seeds sprouting into life. The administration said the cotton plants were among several plants that were "growing well". Other plants that are now growing on the moon are potatoes, rock cress and rapeseed. The plants are part of a project on China's space mission to the far side of the moon. The project is called a "moon surface micro-ecological circle". Project leader Liu Hanlong says the cotton seeds were the first to sprout. He said the plants were chosen because they were small, strong and could grow in the difficult conditions on the moon's surface. Professor Hanlong said the project's aim was to understand more about how plants grow outside of Earth. The long-term aim is to develop plants that can grow on the moon or on planets like Mars. The professor said: "We have given consideration to future survival in space. Learning about these plants growing in a low-gravity environment would allow us to lay the foundation for our future establishment of a space base." The project also includes yeast and fruit flies. The professor hopes the six organisms in the project will make up a mini-ecosystem. The plants will produce oxygen and food for the fruit flies, and the yeast could manage the flies' waste and the dead plants to provide another food source.

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

4. SPACE: Write a magazine article about making farms in space. 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 farms in space. Ask him/her three questions about them. Give him/her three of your opinions on this. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

- a T b F c T d T e T f F g F h F

SYNONYM MATCH (p.5)

- | | |
|-------------------|-----------------|
| 1. ever | a. in history |
| 2. sprouting | b. springing up |
| 3. administration | c. management |
| 4. mission | d. trip |
| 5. chosen | e. selected |
| 6. aim | f. goal |
| 7. consideration | g. thought |
| 8. allow | h. let |
| 9. establishment | i. setting up |
| 10. provide | j. give |

COMPREHENSION QUESTIONS (p.9)

1. Cotton seeds
2. Potatoes
3. The far side of the moon
4. They were small and strong
5. They are difficult
6. The moon or planets like Mars
7. Our future survival in space

8. A moon base
9. Six
10. Oxygen

WORDS IN THE RIGHT ORDER (p.20)

1. Other plants that are growing on the moon.
2. Mission to the far side of the moon.
3. The cotton seeds were the first to sprout.
4. The plants were chosen because they were small.
5. In the difficult conditions on the moon's surface.
6. The project's aim was to understand more.
7. These plants growing in a low-gravity environment.
8. For our future establishment of a space base.
9. Six organisms in the project make a mini-ecosystem.
10. The yeast could manage the flies' waste.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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