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Level 6

3D-printer homes to reduce homelessness

15th March, 2018

<https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Contents

The Article	2	Discussion (Student-Created Qs)	15
Warm-Ups	3	Language Work (Cloze)	16
Vocabulary	4	Spelling	17
Before Reading / Listening	5	Put The Text Back Together	18
Gap Fill	6	Put The Words In The Right Order	19
Match The Sentences And Listen	7	Circle The Correct Word	20
Listening Gap Fill	8	Insert The Vowels (a, e, i, o, u)	21
Comprehension Questions	9	Punctuate The Text And Add Capitals	22
Multiple Choice - Quiz	10	Put A Slash (/) Where The Spaces Are	23
Role Play	11	Free Writing	24
After Reading / Listening	12	Academic Writing	25
Student Survey	13	Homework	26
Discussion (20 Questions)	14	Answers	27

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

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THE ARTICLE

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Having a roof over your head is a basic human need, but there are 1.2 billion people in the world without adequate housing. This may change thanks to a revolutionary, low-cost use of 3D printers to construct houses. With 3D printing, materials are joined together or reinforced by using a computer-controlled device to create a three-dimensional object. Two companies have joined forces to try and ease homelessness around the world by building affordable homes using 3D printing. Tech company ICON has developed a method for printing a one-floor, 60-square-meter house out of cement in a day for just \$10,000. This is a fraction of both the time and cost needed to build a similar construction using conventional methods.

ICON has teamed up with the non-profit, international housing organization New Story. Together, they will start building homes in developing countries. Their joint venture will see 100 new homes constructed in El Salvador next year. New Story's co-founder Alexandria Lafci acknowledged that the 100 homes were just a drop in the ocean. She said: "There are over 100 million people living in slum conditions, in what we call survival mode." She also saw possibilities for 3D-printed houses to become common in richer countries in years to come. However, she said that for the moment: "The tech is ready now to print very high-quality, safe homes in the places we're building."

Sources: <https://www.theverge.com/2018/3/12/17101856/3d-printed-housing-icon-shelter-housing-crisis>
<https://www.wired.com/story/new-story-3-d-printed-house/>
<https://qz.com/1227301/sxsw-2018-affordable-3d-printed-houses-from-icon-and-charity-new-story-debuted-in-austin/>

WARM-UPS

1. HOMELESSNESS: Students walk around the class and talk to other students about homelessness. 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?

roof / human need / housing / revolutionary / low-cost / 3D / affordable homes / cost non-profit / developing countries / joint venture / a drop in the ocean / slums / tech

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

3. HOUSING: Students A **strongly** believe there will be adequate housing for everyone in the world one day; Students B **strongly** believe otherwise. Change partners again and talk about your conversations.

4. BASIC HUMAN NEED: What are basic human needs? Why do so many people not have them? What can we do to change this? Complete this table with your partner(s). Change partners often and share what you wrote.

	What needs?	Why are they lacking?	What has to change?
Housing			
Food			
Water			
Freedom			
A job			
Education			

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

6. 3D: Rank these with your partner. Put the best 3d-printed things at the top. Change partners often and share your rankings.

- houses
- food
- toys
- cups
- statues
- roads
- bags
- cars

VOCABULARY MATCHING

Paragraph 1

- | | |
|----------------------|---|
| 1. adequate | a. Having (or appearing to have) length, width, and depth. |
| 2. revolutionary | b. Build or put something together, like a house a building, road, etc. |
| 3. construct | c. Involving or causing a complete or dramatic change. |
| 4. reinforced | d. Normal; ordinary; usual. |
| 5. three-dimensional | e. Satisfactory or acceptable in quality or quantity. |
| 6. fraction | f. Strengthened or supported an object or substance, especially with additional material. |
| 7. conventional | g. A small or tiny part, amount, or proportion of something. |

Paragraph 2

- | | |
|-------------------------|---|
| 8. venture | h. A tiny or unimportant amount compared to the real situation. |
| 9. co-founder | i. A way or manner in which something occurs or is experienced, expressed, or done. |
| 10. acknowledged | j. A dirty and overcrowded urban street or district very poor people live. |
| 11. a drop in the ocean | k. Someone who started a business or project with others. |
| 12. slum | l. In the future. |
| 13. mode | m. A business enterprise involving considerable risk. |
| 14. in years to come | n. Accepted as being true. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

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

- a. The article says 1.2 billion people have no proper place to live. **T / F**
- b. The article says 3D printing is very expensive. **T / F**
- c. Three companies have united to make homes for the homeless. **T / F**
- d. A company can make a home for \$10,000 in just 24 hours. **T / F**
- e. A new project will build 1,000 homes in El Salvador next year. **T / F**
- f. A non-profit co-founder wants to build homes on the ocean. **T / F**
- g. 100 million people worldwide live in slum conditions. **T / F**
- h. People in rich countries may live in 3D-printed homes in the future. **T / F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- | | |
|------------------------|-----------------|
| 1. basic | a. collaborated |
| 2. adequate | b. inexpensive |
| 3. reinforced | c. set |
| 4. affordable | d. sufficient |
| 5. fraction | e. enterprise |
| 6. teamed up | f. admitted |
| 7. venture | g. fundamental |
| 8. acknowledged | h. prevalent |
| 9. common | i. strengthened |
| 10. ready | j. tiny amount |

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

- | | |
|--|-----------------------------|
| 1. Having a roof over your head is a basic | a. time and cost needed |
| 2. 1.2 billion people in the world | b. dimensional object |
| 3. thanks to a revolutionary, low- | c. in the ocean |
| 4. create a three- | d. without adequate housing |
| 5. a fraction of both the | e. venture |
| 6. ICON has teamed | f. to come |
| 7. joint | g. human need |
| 8. the 100 homes were just a drop | h. slum conditions |
| 9. 100 million people living in | i. cost use of 3D printers |
| 10. in years | j. up with the non-profit |

GAP FILL

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Having a roof over your head is a (1) _____ human need, but there are 1.2 billion people in the world without (2) _____ housing. This may change thanks to a (3) _____, low-cost use of 3D printers to construct houses. With 3D printing, materials are joined together or (4) _____ by using a computer-controlled device to create a three-dimensional object. Two companies have joined (5) _____ to try and ease homelessness around the world by building affordable homes using 3D printing. Tech company ICON has developed a (6) _____ for printing a one-floor, 60-square-meter house out of (7) _____ in a day for just \$10,000. This is a fraction of both the time and cost needed to build a similar construction using conventional (8) _____.

adequate
method
basic
methods
reinforced
cement
forces
revolutionary

ICON has (9) _____ up with the non-profit, international housing organization New Story. Together, they will start building homes in (10) _____ countries. Their joint (11) _____ will see 100 new homes constructed in El Salvador next year. New Story's co-founder Alexandria Lafci (12) _____ that the 100 homes were just a (13) _____ in the ocean. She said: "There are over 100 million people living in (14) _____ conditions, in what we call survival mode." She also saw possibilities for 3D-printed houses to become (15) _____ in richer countries in years to come. However, she said that for the (16) _____: "The tech is ready now to print very high-quality, safe homes in the places we're building."

slum
developing
acknowledged
moment
common
teamed
drop
venture

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

- 1) Having a roof over your head is a basic _____
 - a. human needs
 - b. human needy
 - c. human needed
 - d. human need
- 2) but there are 1.2 billion people in the world without _____
 - a. adequacy housing
 - b. adequate housing
 - c. adequately housing
 - d. inadequate housing
- 3) try and ease homelessness around the world by building _____
 - a. affordable home
 - b. affordability homes
 - c. affordable homes
 - d. affordability home
- 4) ICON has developed a method for printing a one-floor, 60-square-meter house _____
 - a. on off cement
 - b. out of cement
 - c. up off cement
 - d. from of cement
- 5) the time and cost needed to build a similar construction using _____
 - a. conventional methods
 - b. conventionally methodologies
 - c. convention all method
 - d. conventional methodical
- 6) ICON has teamed up with the non-profit, international _____
 - a. housing organization
 - b. house in organization
 - c. housed in organization
 - d. house an organization
- 7) Their joint venture will see 100 new _____
 - a. homes construct it
 - b. homes constructing
 - c. homes construction
 - d. homes constructed
- 8) Alexandria Lafci acknowledged that the 100 homes were just a _____ ocean
 - a. drip in the
 - b. drop in the
 - c. drab in the
 - d. drub in the
- 9) There are over 100 million people living in slum conditions, in what we call _____
 - a. survival mode
 - b. survival node
 - c. survival code
 - d. survival lode
- 10) possibilities for 3D-printed houses to become common in richer countries in _____
 - a. years to go
 - b. years to come
 - c. years to been
 - d. years to gone

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Having a roof over your head is a (1) _____, but there are 1.2 billion people in the world without adequate housing. This may change thanks to a revolutionary, (2) _____ of 3D printers to construct houses. With 3D printing, materials are joined together (3) _____ using a computer-controlled device to create a three-dimensional object. Two companies have (4) _____ try and ease homelessness around the world by building affordable homes using 3D printing. Tech company ICON has (5) _____ for printing a one-floor, 60-square-meter house out of cement in a day for just \$10,000. This is a (6) _____ the time and cost needed to build a similar construction using conventional methods.

ICON has (7) _____ the non-profit, international housing organization New Story. Together, they will start building homes in developing countries. Their (8) _____ see 100 new homes constructed in El Salvador next year. New Story's co-founder Alexandria Lafci acknowledged that the 100 homes were (9) _____ in the ocean. She said: "There are over 100 million people living in slum conditions, in what we (10) _____." She also saw possibilities for 3D-printed houses to become common in richer countries in (11) _____. However, she said that for the moment: "The tech is ready now to print (12) _____, safe homes in the places we're building."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

1. What do 1.2 billion people in the world not have?
2. What did the article say about the expense of using 3D printers?
3. How many companies are collaborating to lower homelessness?
4. How much will the 3D-printed houses cost?
5. What did the article say 3D printers could build houses at a fraction of?
6. What is the name of the non-profit organization in the article?
7. How many homes will the joint venture build in El Salvador next year?
8. What did co-founder say the homes were a drop in?
9. What conditions did the co-founder say 100 million people lived in?
10. Where might 3D-printed houses become common in the future?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

- 1) What do 1.2 billion people in the world not have?
 - a) somewhere to live
 - b) a nice house
 - c) a roof
 - d) adequate housing
- 2) What did the article say about the expense of using 3D printers?
 - a) they are exorbitantly priced
 - b) they are low cost
 - c) they are expensive
 - d) we can all afford them
- 3) How many companies are collaborating to lower homelessness?
 - a) 4
 - b) 3
 - c) 2
 - d) 1
- 4) How much will the 3D-printed houses cost?
 - a) \$10,000
 - b) \$15,000
 - c) \$20,000
 - d) \$5,000
- 5) What did the article say 3D printers could build houses at a fraction of?
 - a) a half
 - b) per cent
 - c) cost and time
 - d) materials
- 6) What is the name of the non-profit organization in the article?
 - a) News Story
 - b) New Story
 - c) New Stories
 - d) News Stories
- 7) How many homes will the joint venture build in El Salvador next year?
 - a) 180
 - b) 1,000
 - c) 80
 - d) 100
- 8) What did co-founder say the homes were a drop in?
 - a) the ocean
 - b) cement
 - c) share prices
 - d) hopes
- 9) What conditions did the co-founder say 100 million people lived in?
 - a) hopeful conditions
 - b) sunny conditions
 - c) slum conditions
 - d) freezing conditions
- 10) Where might 3D-printed houses become common in the future?
 - a) Antarctica
 - b) richer countries
 - c) New York
 - d) Brazil

ROLE PLAY

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Role A – Houses

You think houses are the best things 3D printers can print. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the worst of these (and why): food, bags or toys.

Role B – Food

You think food is the best thing 3D printers can print. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the worst of these (and why): houses, bags or toys.

Role C – Bags

You think bags are the best things 3D printers can print. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the worst of these (and why): food, houses or toys.

Role D – Toys

You think toys are the best things 3D printers can print. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the worst of these (and why): food, bags or houses.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words '3D' and 'printer'.

3D	Printer
-----------	----------------

- 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">• roof• thanks• device• affordable• cement• fraction	<ul style="list-style-type: none">• profit• start• co-founder• ocean• richer• safe
---	---

HOMELESSNESS SURVEY

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Write five GOOD questions about homelessness 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.

HOMELESSNESS 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 '3D'?
3. How important is having a roof over your head?
4. Why is there not enough adequate housing?
5. Why is there so much inequality in the world?
6. What do you know about 3D printers?
7. Would you like to print your own house?
8. How can countries tackle homelessness?
9. What do you think of a \$10,000 house?
10. What other buildings could the printer print?

3D-printer homes to reduce homelessness – 15th March, 2018
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HOMELESSNESS 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 "printer"?
13. What do you think about what you read?
14. How might 3D-printed homes be different from regular homes?
15. What's the difference between a house and a home?
16. What does 'Home is where the heart is' mean?
17. Is 100 3D-printed homes really a 'drop in the ocean'?
18. What must it be like to live in a slum?
19. How popular will 3D-printed homes be in richer countries?
20. What questions would you like to ask the printers?

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/1803/180315-3d-printer-homes.html>

Having a (1) _____ over your head is a basic human need, but there are 1.2 billion people in the world without (2) _____ housing. This may change thanks to a revolutionary, low-cost use of 3D printers to construct houses. With 3D printing, materials are (3) _____ together or reinforced by using a computer-controlled device to create a three-dimensional object. Two companies have joined (4) _____ to try and ease homelessness around the world by building affordable homes using 3D printing. Tech company ICON has developed a method for printing a one-floor, 60-square-meter house (5) _____ of cement in a day for just \$10,000. This is a fraction of both the time and cost needed to build a similar construction using (6) _____ methods.

ICON has teamed (7) _____ with the non-profit, international housing organization New Story. Together, they will start building homes in developing countries. Their joint (8) _____ will see 100 new homes constructed in El Salvador next year. New Story's co-founder Alexandria Lafci acknowledged that the 100 homes were just a (9) _____ in the ocean. She said: "There are over 100 million people living in (10) _____ conditions, in what we call survival mode." She also saw possibilities for 3D-printed houses to become common in richer countries in years to (11) _____. However, she said that for the (12) _____: "The tech is ready now to print very high-quality, safe homes in the places we're building."

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

- | | | | | |
|-----|-----------------|------------------|-----------------|------------------|
| 1. | (a) roof | (b) ceiling | (c) gable | (d) lid |
| 2. | (a) aqueduct | (b) adequacy | (c) adequate | (d) inadequate |
| 3. | (a) joint | (b) joins | (c) joined | (d) joining |
| 4. | (a) fracas | (b) fiercest | (c) farces | (d) forces |
| 5. | (a) outer | (b) into | (c) out | (d) up |
| 6. | (a) convenience | (b) conventional | (c) contraption | (d) correctional |
| 7. | (a) out | (b) up | (c) in | (d) over |
| 8. | (a) vulture | (b) venture | (c) voucher | (d) avower |
| 9. | (a) drip | (b) drab | (c) drop | (d) dump |
| 10. | (a) slump | (b) slam | (c) slim | (d) slum |
| 11. | (a) have | (b) go | (c) been | (d) come |
| 12. | (a) matrimonial | (b) momentous | (c) monument | (d) moment |

SPELLING

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Paragraph 1

1. without daeteuqa housing
2. joined together or recfrnieod
3. a three-nisdnmoaeil object
4. building raofdafbel homes
5. a cotnrifa of both the time and cost
6. using ovninnecatol methods

Paragraph 2

7. building homes in vdIpeoenig countries
8. joint retveun
9. New Story's ofdr-ocnue
10. Alexandria Lafci enodalwdkgce that
11. isvvural mode
12. She also saw iiessotsiblip

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Number these lines in the correct order.

- (**1**) Having a roof over your head is a basic human need, but there are 1.2 billion people in the world without adequate
- () housing. This may change thanks to a revolutionary, low-cost use of 3D printers to
- () mode." She also saw possibilities for 3D-printed houses to become common in
- () year. New Story's co-founder Alexandria Lafci acknowledged that the 100 homes were just a drop
- () richer countries in years to come. However, she said that for the moment: "The tech is ready
- () in the ocean. She said: "There are over 100 million people living in slum conditions, in what we call survival
- () construct houses. With 3D printing, materials are joined together or reinforced by using a computer-controlled
- () of both the time and cost needed to build a similar construction using conventional methods.
- () for printing a one-floor, 60-square-meter house out of cement in a day for just \$10,000. This is a fraction
- () ICON has teamed up with the non-profit, international housing organization New Story. Together, they will start
- () homelessness around the world by building affordable homes using 3D printing. Tech company ICON has developed a method
- () building homes in developing countries. Their joint venture will see 100 new homes constructed in El Salvador next
- () now to print very high-quality, safe homes in the places we're building."
- () device to create a three-dimensional object. Two companies have joined forces to try and ease

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

1. housing . without People world the in adequate
2. a object . a device three-dimensional create Using to
3. ease homelessness . to Joined try forces and
4. for printing . method developed a company A has
5. of fraction cost . both A time the and
6. countries . will building in start developing They homes
7. new will Their venture homes . see joint 100
8. 100 in slum conditions . people million Over living
9. also She 3D-printed for possibilities houses . saw
10. come . in richer countries years Common to in

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Having a roof over your head is a *basic / basically* human need, but there are 1.2 billion people in the world without *adequate / adequacy* housing. This may change *thanks / thank you* to a revolutionary, low-cost use of 3D printers to construct houses. With 3D printing, materials are *joint / joined* together or reinforced by using a computer-controlled device to create a three-dimensional *object / objective*. Two companies have joined *farces / forces* to try and ease homelessness around the world *as / by* building affordable homes using 3D printing. Tech company ICON has developed a *method / methodical* for printing a one-floor, 60-square-meter house out of cement in *a / the* day for just \$10,000. This is a *fraction / friction* of both the time and cost needed to build a similar construction using conventional methods.

ICON has teamed *down / up* with the non-profit, international housing organization New Story. Together, they will start *built / building* homes in *developing / development* countries. Their joint venture will see 100 new homes constructed in El Salvador next year. New Story's co-founder Alexandria Lafci *acknowledged / acknowledgment* that the 100 homes were just a *drip / drop* in the ocean. She said: "There are over 100 million people living in *slum / slam* conditions, in what we call survival *mode / modem*." She also saw possibilities for 3D-printed houses to become common *on / in* richer countries in years to *go / come*. However, she said that for the *monument / moment*: "The tech is ready now to print very high-quality, safe homes in the places we're building."

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/1803/180315-3d-printer-homes.html>

H_v_n g _ r__ f _v_r y__ r h__ d _s _ b_s_c h_m_n
n__ d , b_t th_r_r_ 1.2 b_ll__ n p__ pl__ n t
h_ w_r l d w_t h__ t _d_q__ t_ h__ s_n g . Th_s m_y
c h_n g_ th_n k s t_ _ r_v_l_t__ n_r y , l_w - c_s t _s_
_f 3 D p_r_n t_r s t_ c_n s_t_r_c t h__ s_s . W_t h
3 D p_r_n t_n g , m_t_r__ l s _r_ j__ n_d t_g_t h_r _r
r__ n f_r c_d b_y _s_n g _ c_m p_t_r - c_n t_r_l_l_d
d_v_c_ t_ c_r__ t_ _ t h_r__ - d_m_n s__ n_l _b_j_c t . T
w_ c_m p_n__ s h_v_ j__ n_d f_r c_s t_ t_r y _n d
__ s_ h_m_l_s s_n_s s _r__ n_d th_ w_r l d b_y b__ l
d_n g _f f_r d_b_l_ h_m_s _s_n g 3 D p_r_n t_n g . T_c
h_ c_m p_n y I C O N h_s d_v_l_p_d _ m_t h_d f_r
p_r_n t_n g _n - f_l__ r , 6 0 - s_q__ r - m_t_r h__ s_
__ t _f c_m_n t _n _ d_y f_r j_s t \$ 1 0 , 0 0 0 . T
h_s _s _ f_r c_t__ n _f b_t h th_ t_m_ _n d c_s t
n__ d_d t_ b__ l d _ s_m_l_r c_n s_t_r_c t__ n _s_n g
c_n v_n t__ n_l m_t h_d s .

I C O N h_s t__ m_d _p w_t h th_ n_n - p_r_f_t , _n
t_r_n_t__ n_l h__ s_n g _r_g_n_z_t__ n N_w S_t_r_y .
T_g_t h_r , th_y w_l l s_t_r t b__ l d_n g h_m_s _n
d_v_l_p_n g c__ n t_r__ s . Th__ r j__ n t v_n t_r_
w_l l s__ 1 0 0 n_w h_m_s c_n s_t_r_c t_d _n E l
S_l v_d_r n_x t y__ r . N_w S_t_r_y 's c_- f__ n_d_r
A l_x_n d_r__ L_f_c_ _c_k_n_w_l_d_g_d th_t th_ 1 0 0
h_m_s w_r_ j_s t _ d_r_p _n th_ c__ n . S h_ s__
d : " Th_r_r_r_ _v_r 1 0 0 m_l_l__ n p__ p_l_ l_v_n g
_n s_l_m c_n d_t__ n s , _n w_h_t w_ c_l_l s_r_v_v_l
m_d_ . " S h_ _l_s_ s_w p_s_s_b_l_t__ s f_r 3 D - p_r_n
t_d h__ s_s t_ b_c_m_ c_m m_n _n r_c h_r c__ n t
r__ s _n y__ r s t_ c_m_ . H_w_v_r , s h_ s__ d t
h_t f_r th_ m_m_n t : " Th_ t_c h _s r__ d_y n_w
t_ p_r_n t v_r y h_g h - q__ l_t_y , s_f_ h_m_s _n t
h_ p_l_c_s w_'r_ b__ l d_n g . "

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

having a roof over your head is a basic human need but there are 12 billion people in the world without adequate housing this may change thanks to a revolutionary lowcost use of 3d printers to construct houses with 3d printing materials are joined together or reinforced by using a computercontrolled device to create a threedimensional object two companies have joined forces to try and ease homelessness around the world by building affordable homes using 3d printing tech company icon has developed a method for printing a onefloor 60squaremeter house out of cement in a day for just 10000 this is a fraction of both the time and cost needed to build a similar construction using conventional methods

icon has teamed up with the nonprofit international housing organization new story together they will start building homes in developing countries their joint venture will see 100 new homes constructed in el salvador next year new storys cofounder alexandria lafci acknowledged that the 100 homes were just a drop in the ocean she said there are over 100 million people living in slum conditions in what we call survival mode she also saw possibilities for 3dprinted houses to become common in richer countries in years to come however she said that for the moment the tech is ready now to print very highquality safe homes in the places were building

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Having a roof over your head is a basic human need, but there are 1.2 billion people in the world without adequate housing. This may change thanks to a revolutionary, low-cost use of 3D printer to construct houses. With 3D printing, materials are joined together or reinforced by using a computer-controlled device to create a three-dimensional object. Two companies have joined forces to try and ease homelessness around the world by building affordable homes using 3D printing. Tech company ICON has developed a method for printing a one-floor, 60-square-meter house out of cement in a day for just \$10,000. This is a fraction of both the time and cost needed to build a similar construction using conventional methods. ICON has teamed up with the non-profit, international housing organization New Story. Together, they will start building homes in developing countries. Their joint venture will see 100 new homes constructed in El Salvador next year. New Story's co-founder Alexandria Lafci acknowledged that the 100 homes were just a drop in the ocean. She said: "There are over 100 million people living in slum conditions, in what we call survival mode." She also saw possibilities for 3D-printed houses to become common in richer countries in years to come. However, she said that for the moment: "The tech is ready now to print very high-quality, safe homes in the places we're rebuilding."

ACADEMIC WRITING

From <https://breakingnewsenglish.com/1803/180315-3d-printer-homes.html>

Homelessness will be a thing of the past one day. Discuss.

HOMework

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

3. 3D PRINTERS: Make a poster about 3D printers. Show your work to your classmates in the next lesson. Did you all have similar things?

4. HOMELESSNESS: Write a magazine article about homelessness and how tackling it should be the top priority of all governments. Include imaginary interviews with people who are for and against it.

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 homelessness. Ask him/her three questions about it. Give him/her three of your ideas on how to reduce it. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

- | | |
|-----------------|-----------------|
| 1. basic | a. fundamental |
| 2. adequate | b. sufficient |
| 3. reinforced | c. strengthened |
| 4. affordable | d. inexpensive |
| 5. fraction | e. tiny amount |
| 6. teamed up | f. collaborated |
| 7. venture | g. enterprise |
| 8. acknowledged | h. admitted |
| 9. common | i. prevalent |
| 10. ready | j. set |

COMPREHENSION QUESTIONS (p.9)

1. Adequate housing
2. They were low cost
3. Two
4. \$10,000
5. Time and cost
6. New Story
7. 100
8. The ocean
9. Slum conditions
10. Richer countries

WORDS IN THE RIGHT ORDER (p.20)

1. People in the world without adequate housing.
2. Using a device to create a three-dimensional object.
3. Joined forces to try and ease homelessness.
4. A company has developed a method for printing.
5. A fraction of both the time and cost.
6. They will start building homes in developing countries.
7. Their joint venture will see 100 new homes.
8. Over 100 million people living in slum conditions.
9. She also saw possibilities for 3D-printed houses.
10. Common in richer countries in years to come.

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 ;-)