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Level 3 – 16th September, 2021

Scientists want to bring mammoths back to life

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

<https://breakingnewsenglish.com/2109/210916-woolly-mammoths.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/2109/210916-woolly-mammoths.html>

Scientists are working on bringing back the woolly mammoth. The giant creature is an ancestor of the Asian elephant. It became extinct over 4,000 years ago, but scientists and entrepreneurs want to bring it back to life. The idea is like something from the movie Jurassic Park. Scientists will use the DNA from the bones of a mammoth found in Siberia to revive the mammoth. They will also use cloning techniques. It would be the first time since the Ice Age for a mammoth to walk on the earth. The lead scientist is professor George Church, a geneticist from Harvard Medical School. He is an expert in gene editing. An entrepreneur, Ben Lamm, said: "Our goal is to have our first calves in the next four to six years."

Ben Lamm is founder of a technology and software company called Colossal. He has provided \$15 million for the research to move forward. He said he has big plans to bring the mammoth back to life and to revive other species. He said he hoped to "rapidly advance the field of species de-extinction" and "to restore the woolly mammoth to the Arctic tundra". Mr Lamm believes the research will result in innovations that will benefit biotechnology and health care. Lamm compared the project to the Apollo missions to the moon. He said they made people excited about space. They led to the development of everyday products like freeze-dried food, and of technology such as GPS. Mr Lamm believes genetics will improve our lives.

Sources: <https://www.theguardian.com/science/2021/sep/13/firm-bring-back-woolly-mammoth-from-extinction>
<https://edition.cnn.com/2021/09/13/world/woolly-mammoth-resurrect-deextinction-scn/index.html>
<https://www.usatoday.com/story/news/nation/2021/09/13/resurrect-woolly-mammoth-company-plans/8325439002/>

WARM-UPS

1. MAMMOTHS: Students walk around the class and talk to other students about mammoths. 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?

scientists / giant / creature / extinct / entrepreneur / DNA / technique / earth / goal / technology / software / species / Arctic / missions / moon / products / genetics

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

3. DE-EXTINCTION: Students A **strongly** believe scientists should try and bring species back from extinction; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.

4. EXTINCT SPECIES: What do you know about these extinct species? Should they be brought back? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	Should They Come Back?
Woolly Mammoth		
Dodo		
Sabre-toothed tiger		
Baiji white dolphin		
Black rhinoceros		
Great auk		

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

6. GENETICS: Rank these with your partner. Put the best uses of genetics at the top. Change partners often and share your rankings.

- De-extinction
- Increasing intelligence
- Personalised medicine
- Ending hereditary diseases
- Choosing eye colour
- GM food
- Growing organs
- Partner matching

VOCABULARY MATCHING

Paragraph 1

- | | |
|-----------------|--|
| 1. giant | a. A person who sets up a business or businesses, taking on financial risks in the hope of profit. |
| 2. creature | b. An animal or plant from history, which today's animals and plants came from. |
| 3. ancestor | c. An animal, but not a human being. |
| 4. extinct | d. A person who has a lot of knowledge about or skill in a particular area. |
| 5. entrepreneur | e. Very, very, very big. |
| 6. revive | f. Of a species, family, or other larger group that has no living members. |
| 7. expert | g. Bring back to life. |

Paragraph 2

- | | |
|----------------|---|
| 8. provided | h. Make or cause to become better and better. |
| 9. species | i. The action of make changes in something to make it better, more modern, etc. |
| 10. rapidly | j. An area of study, activity or interest. |
| 11. advance | k. A group of living things that are in the same family / type. |
| 12. field | l. Make or become better. |
| 13. innovation | m. Made available for use; supplied; gave. |
| 14. improve | n. Very quickly. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

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

1. The Asian elephant is the ancestor of the woolly mammoth. **T / F**
2. The woolly mammoth died out more than 4,000 years ago. **T / F**
3. The woolly mammoth was the star of the movie Jurassic Park. **T / F**
4. Woolly mammoths could return to Earth within the next six years. **T / F**
5. An entrepreneur helped the research by giving \$50 million. **T / F**
6. The entrepreneur wants to bring back more species from extinction. **T / F**
7. The Apollo moon missions led to the creation of GPS technology. **T / F**
8. The entrepreneur said genetics will improve freeze-dried food. **T / F**

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

- | | |
|-------------------------|--------------------|
| 1. bringing back | a. quickly |
| 2. extinct | b. method |
| 3. entrepreneur | c. make better |
| 4. technique | d. wiped out |
| 5. expert | e. changes |
| 6. founder | f. reviving |
| 7. rapidly | g. specialist |
| 8. innovations | h. journeys |
| 9. missions | i. business person |
| 10. improve | j. creator |

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

- | | |
|--|----------------------------|
| 1. Scientists are working on bringing | a. improve our lives |
| 2. The giant creature is an ancestor | b. techniques |
| 3. It became extinct | c. to the moon |
| 4. They will also use cloning | d. over 4,000 years ago |
| 5. He is an expert | e. biotechnology |
| 6. rapidly advance the field of | f. back the woolly mammoth |
| 7. result in innovations that will benefit | g. species de-extinction |
| 8. the Apollo missions | h. of everyday products |
| 9. They led to the development | i. of the Asian elephant |
| 10. genetics will | j. in gene editing |

GAP FILL

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Scientists are working on bringing back the woolly mammoth. The giant (1) _____ is an ancestor of the Asian elephant. It became extinct over 4,000 years ago, but scientists and entrepreneurs want to bring it back to life. The (2) _____ is like something from the movie Jurassic Park. Scientists will use the DNA from the (3) _____ of a mammoth found in Siberia to (4) _____ the mammoth. They will also use cloning techniques. It would be the first time (5) _____ the Ice Age for a mammoth to walk on the earth. The (6) _____ scientist is professor George Church, a geneticist from Harvard Medical School. He is an expert in gene (7) _____. An entrepreneur, Ben Lamm, said: "Our goal is to have our first (8) _____ in the next four to six years."

Ben Lamm is (9) _____ of a technology and software company called Colossal. He has (10) _____ \$15 million for the research to move forward. He said he has big plans to bring the mammoth back to life and to revive other (11) _____. He said he hoped to "rapidly advance the (12) _____ of species de-extinction" and "to restore the woolly mammoth to the Arctic tundra". Mr Lamm believes the research will result in (13) _____ that will benefit biotechnology and health care. Lamm compared the (14) _____ to the Apollo missions to the moon. He said they made people excited about space. They led to the development of everyday (15) _____ like freeze-dried food, and of technology such as GPS. Mr Lamm believes (16) _____ will improve our lives.

lead
revive
idea
calves
since
creature
editing
bones

innovations
species
products
founder
genetics
project
provided
field

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

- 1) bringing back the woolly mammoth. The giant creature is an _____ Asian elephant
 - a. ancestry of the
 - b. ancestral of the
 - c. ancestor of the
 - d. uncle and aunts of the
- 2) but scientists and entrepreneurs want to bring it _____
 - a. back to life
 - b. backed life
 - c. back to rife
 - d. backed to rife
- 3) DNA from the bones of a mammoth found in Siberia to _____
 - a. revival the mammoth
 - b. rev viva the mammoth
 - c. revive the mammoth
 - d. revise the mammoth
- 4) George Church, a geneticist from Harvard Medical School. He is an expert _____
 - a. in jeans editing
 - b. in gene editing
 - c. in genius editing
 - d. in genuine editing
- 5) Our goal is to have our first calves in the next four _____
 - a. too six years
 - b. to six years
 - c. two six years
 - d. thru six years
- 6) He has provided \$15 million for the research _____
 - a. tomb move forward
 - b. tome move forward
 - c. too move forward
 - d. to move forward
- 7) He said he has big plans to bring the mammoth back to life and to _____
 - a. revive other species
 - b. revive others species
 - c. revile other species
 - d. revise other species
- 8) Mr Lamm believes the research will result in innovations that _____
 - a. will beneficial biotechnology
 - b. will benefit biotechnology
 - c. will benefits biotechnology
 - d. will benefitting biotechnology
- 9) They led to the development of everyday products like _____
 - a. freeze-dry food
 - b. freezes-dried food
 - c. froze-dried food
 - d. freeze-dried food
- 10) Mr Lamm believes genetics will _____
 - a. improve our lines
 - b. improve our wives
 - c. improve our hives
 - d. improve our lives

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Scientists are working (1) _____ the woolly mammoth. The giant creature is an ancestor of the Asian elephant. It (2) _____ 4,000 years ago, but scientists and entrepreneurs want to bring it back to life. The (3) _____ something from the movie Jurassic Park. Scientists will use the DNA from the bones of a mammoth found in Siberia (4) _____ mammoth. They will also use cloning techniques. It would be the first time since the Ice Age for a mammoth to walk on the earth. The (5) _____ professor George Church, a geneticist from Harvard Medical School. He is an expert (6) _____ editing. An entrepreneur, Ben Lamm, said: "Our goal is to have our first calves in the next four to six years."

Ben Lamm is founder of a (7) _____ company called Colossal. He has provided \$15 million for the research to move forward. He said he has big plans to bring the mammoth (8) _____ and to revive other species. He said he hoped to "rapidly advance the (9) _____ de-extinction" and "to restore the woolly mammoth to the Arctic tundra". Mr Lamm believes the research will result in innovations (10) _____ biotechnology and health care. Lamm compared the project to the Apollo missions to the moon. He said they made people excited about space. They led to the development of everyday products like (11) _____, and of technology such as GPS. Mr Lamm believes genetics will (12) _____.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

1. What is a living descendant of the woolly mammoth?
2. When did the woolly mammoth become extinct?
3. Where did scientists get woolly mammoth DNA from?
4. What is professor George Church an expert on?
5. When might the first woolly members reappear on Earth?
6. What kind of company is Colossal?
7. What else does Ben Lamm want to revive?
8. Where will future woolly mammoths live?
9. What missions did Mr Lamm compare the woolly mammoth project to?
10. What did Mr Lamm say genetics would improve?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

- 1) What is a living descendant of the woolly mammoth?
 - a) kangaroos
 - b) the rhinoceros
 - c) warthogs
 - d) the Asian elephant
- 2) When did the woolly mammoth become extinct?
 - a) exactly 4,000 years ago
 - b) over 4,000 years ago
 - c) around 4,000 years ago
 - d) just under 4,000 years ago
- 3) Where did scientists get woolly mammoth DNA from?
 - a) a lab
 - b) chemicals
 - c) mammoth bones
 - d) Africa
- 4) What is professor George Church an expert on?
 - a) gene editing
 - b) woolly mammoths
 - c) ancient history
 - d) the Ice Age
- 5) When might the first woolly members reappear on Earth?
 - a) next decade
 - b) in the middle of the century
 - c) in the next four to six years
 - d) no time soon
- 6) What kind of company is Colossal?
 - a) a de-extinction company
 - b) a technology and software company
 - c) a publisher
 - d) a genetics company
- 7) What else does Ben Lamm want to revive?
 - a) dinosaurs
 - b) the Ice Age
 - c) hopes and dreams
 - d) other species
- 8) Where will future woolly mammoths live?
 - a) the Arctic tundra
 - b) all across Africa
 - c) the Australian Outback
 - d) Patagonia
- 9) What missions did Mr Lamm compare the woolly mammoth project to?
 - a) missions to Mars
 - b) the ascent of Everest
 - c) the Apollo missions to the moon
 - d) missions to find a rainbow unicorn
- 10) What did Mr Lamm say genetics would improve?
 - a) dinosaurs
 - b) our lives
 - c) the Ice Age
 - d) climate change

ROLE PLAY

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Role A – De-extinction

You think de-extinction is the best use of genetics. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least useful of these (and why): GM food, growing organs or personalised medicine.

Role B – GM Food

You think GM food is the best use of genetics. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least useful of these (and why): de-extinction, growing organs or personalised medicine.

Role C – Growing Organs

You think growing organs is the best use of genetics. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least useful of these (and why): GM food, de-extinction or personalised medicine.

Role D – Personalised Medicine

You think personalised medicine is the best use of genetics. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least useful of these (and why): GM food, growing organs or de-extinction.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

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

giant	creature
--------------	-----------------

- 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">• ancestor• movie• techniques• walk• expert• first	<ul style="list-style-type: none">• provided• big• rapidly• result• missions• dried
---	--

MAMMOTHS SURVEY

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Write five GOOD questions about mammoths 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.

MAMMOTHS 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 'mammoth'?
3. What do you know about woolly mammoths?
4. Do you think bringing the woolly mammoth back is a good idea?
5. Why do you think scientists want to bring it back?
6. What are the dangers of reviving the woolly mammoth?
7. What do you think of cloning?
8. How much like Jurassic Park is bringing back the woolly mammoth?
9. What do you know about the Ice Age?
10. How important is the job of a geneticist?

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MAMMOTHS 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 'life'?
13. What do you think about what you read?
14. What do you think of woolly mammoths?
15. Would you like scientists to bring back the dinosaurs?
16. What do you think of the idea of de-extinction?
17. How might this research benefit our lives?
18. What extinct animal would you like scientists to bring back?
19. What three adjectives best describe this story?
20. What questions would you like to ask the scientists?

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/2109/210916-woolly-mammoths.html>

Scientists are working on (1) _____ back the woolly mammoth. The giant creature is an ancestor of the Asian elephant. It (2) _____ extinct over 4,000 years ago, but scientists and entrepreneurs want to bring it back to life. The idea is like something from the movie Jurassic Park. Scientists will use the DNA from the (3) _____ of a mammoth found in Siberia to revive the mammoth. They will also use (4) _____ techniques. It would be the first time since the ice (5) _____ for a mammoth to walk on the earth. The lead scientist is professor George Church, a geneticist from Harvard Medical School. He is an expert (6) _____ gene editing. An entrepreneur, Ben Lamm, said: "Our goal is to have our first calves in the next four to six years."

Ben Lamm is founder of a technology and software company called Colossal. He has provided \$15 million (7) _____ the research to move forward. He said he has big plans to bring the mammoth back to life and to revive (8) _____ species. He said he hoped to "rapidly advance the field of species de-extinction" and "to restore the woolly mammoth to the Arctic tundra". Mr Lamm believes the research will result (9) _____ innovations that will benefit biotechnology and health care. Lamm compared the project (10) _____ the Apollo missions to the moon. He said they made people excited about space. They (11) _____ to the development of everyday products like freeze-dried food, and of technology (12) _____ as GPS. Mr Lamm believes genetics will improve our lives.

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

- | | | | | |
|-----|-------------|----------------|--------------|-----------------|
| 1. | (a) taking | (b) bringing | (c) having | (d) giving |
| 2. | (a) had | (b) became | (c) appeared | (d) been |
| 3. | (a) boned | (b) boneless | (c) boney | (d) bones |
| 4. | (a) cleaner | (b) cloning | (c) clan | (d) cleanse |
| 5. | (a) period | (b) age | (c) days | (d) compartment |
| 6. | (a) by | (b) as | (c) in | (d) to |
| 7. | (a) of | (b) under | (c) for | (d) over |
| 8. | (a) others | (b) the others | (c) other | (d) bother |
| 9. | (a) as | (b) at | (c) of | (d) in |
| 10. | (a) to | (b) at | (c) of | (d) on |
| 11. | (a) led | (b) leader | (c) leading | (d) leads |
| 12. | (a) so | (b) seem | (c) such | (d) thus |

SPELLING

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Paragraph 1

1. The giant ueearrct
2. an ocaetsrn of the Asian elephant
3. It became xtctnei over 4,000 years ago
4. They will also use ngocinl techniques
5. a steiintegc from Harvard Medical School
6. He is an pxerte in gene editing

Paragraph 2

7. revive other eecpssi
8. he hoped to rapidly enadacv the field
9. the research will result in nitoannvois
10. etenbif biotechnology and health care
11. the Apollo imnssois to the moon
12. irepomv our lives

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Number these lines in the correct order.

- () bones of a mammoth found in Siberia to revive the mammoth. They will also use cloning
- () to life. The idea is like something from the movie Jurassic Park. Scientists will use the DNA from the
- () the Arctic tundra". Mr Lamm believes the research will result in innovations that will benefit biotechnology and health
- () techniques. It would be the first time since the Ice Age for a mammoth to walk on the earth. The lead
- () editing. An entrepreneur, Ben Lamm, said: "Our goal is to have our first calves in the next four to six years."
- () revive other species. He said he hoped to "rapidly advance the field of species de-extinction" and "to restore the woolly mammoth to
- () research to move forward. He said he has big plans to bring the mammoth back to life and to
- (**1**) Scientists are working on bringing back the woolly mammoth. The giant creature is an ancestor of the
- () Asian elephant. It became extinct over 4,000 years ago, but scientists and entrepreneurs want to bring it back
- () care. Lamm compared the project to the Apollo missions to the moon. He said they made people
- () excited about space. They led to the development of everyday products like freeze-dried food, and
- () of technology such as GPS. Mr Lamm believes genetics will improve our lives.
- () scientist is professor George Church, a geneticist from Harvard Medical School. He is an expert in gene
- () Ben Lamm is founder of a technology and software company called Colossal. He has provided \$15 million for the

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

1. back working are Scientists mammoth . bringing the on
2. became The mammoth extinct over ago . 4,000 years
3. is The idea movie . from a something like
4. since first The age . the ice time
5. years . four six In to the next
6. million He has the provided research . for \$15
7. advance species field Rapidly of the de-extinction .
8. said He excited they space . about made people
9. everyday products . of led the development to They
10. Lamm genetics believes improve our Mr will lives .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Scientists are working on *bringing / brought* back the woolly mammoth. The giant creature is an *ancestor / ancestry* of the Asian elephant. It became extinct over 4,000 years ago, but *scientist / scientists* and entrepreneurs want to bring it back to *life / living*. The idea is like something from the movie Jurassic Park. Scientists will use the DNA from the bones of a mammoth *finding / found* in Siberia to revive the mammoth. They will also use cloning techniques. It would be the first time *for / since* the Ice Age for a mammoth to walk on the earth. The *lead / iron* scientist is professor George Church, a *genetics / geneticist* from Harvard Medical School. He is an expert in *jeans / gene* editing. An entrepreneur, Ben Lamm, said: "Our goal is to have our first calves in the next four *by / to* six years."

Ben Lamm is founder of a technology and software company called Colossal. He has *provided / gave* \$15 million for the research to move *forward / backward*. He said he has big plans to *bring / bringing* the mammoth back to life and to *revival / revive* other species. He said he *hoped / hopped* to "rapidly advance the field of species de-extinction" and "to restore the woolly mammoth to the Arctic tundra". Mr Lamm *beliefs / believes* the research will result in innovations that will *benefit / beneficial* biotechnology and health care. Lamm compared the project to the Apollo missions to the moon. He said *they / it* made people excited about space. They led to the development of everyday products *like / same* freeze-dried food, and of technology such as GPS. Mr Lamm believes genetics will *improvement / improve* our lives.

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/2109/210916-woolly-mammoths.html>

Sc__nt_sts _r_ w_rk_ng _n br_ng_ng b_ck th_ w__lly m__mm_th. Th_ g__nt cr__t_r_ _s _n _nc_st_r _f th_ _s__n _l_ph_nt. _t b_c_m_ _xt_nct _v_r 4,000 y__rs _g_, b_t sc__nt_sts _nd _ntr_pr_n__rs w_nt t_ br_ng _t b_ck t_ l_f_. Th_ _d__ _s l_k_ s_m_th_ng fr_m th_ m_v__ J_r_ss_c P_rk. Sc__nt_sts w_ll _s_ th_ DN_ fr_m th_ b_n_s _f _ m__mm_th f__nd _n S_b_r__ t_ r_v_v_ th_ m__mm_th. Th_y w_ll _ls_ _s_ cl_n_ng t_chn_q__s. _t w__ld b_ th_ f_rst t_m_ s_nc_ th_ _c_ _g_ f_r _ m__mm_th t_ w_lk _n th_ __rth. Th_ l__d sc__nt_st _s pr_f_ss_r G__rg_ Ch_rch, _ g_n_t_c_st fr_m H_rv_rd M_d_c_l Sch__l. H_ _s _n _xp_rt _n g_n_ _d_t_ng. _n _ntr_pr_n__r, B_n L_mm, s__d: "_r g__l _s t_ h_v_ __r f_rst c_lv_s _n th_ n_xt f__r t_ s_x y__rs."

B_n L_mm _s f__nd_r _f _ t_chn_l_gy _nd s_ftw_r_ c_m_p_ny c_ll_d C_l_ss_l. H_ h_s pr_v_d_d \$15 m_ll__n f_r th_ r_s__rch t_ m_v_ f_rw_rd. H_ s__d h_ h_s b_g pl_ns t_ br_ng th_ m__mm_th b_ck t_ l_f_ _nd t_ r_v_v_ _th_r sp_c__s. H_ s__d h_ h_p_d t_ "r_p_dly _dv_nc_ th_ f__ld _f sp_c__s d__xt_nct__n" _nd "t_ r_st_r_ th_ w__lly m__mm_th t_ th_ _rct_c t_ndr_". Mr L_mm b_l__v_s th_ r_s__rch w_ll r_s_lt _n _nn_v_t__ns th_t w_ll b_n_f_t b__t_chn_l_gy _nd h__lth c_r_. L_mm c_m_p_r_d th_ pr_j_ct t_ th_ _p_ll_ m_ss__ns t_ th_ m__n. H_ s__d th_y m_d_ p__pl_ _xc_t_d _b__t sp_c_. Th_y l_d t_ th_ d_v_l_pm_nt _f _v_ryd_y pr_d_cts l_k_ fr__z__dr__d f__d, _nd _f t_chn_l_gy s_ch _s GPS. Mr L_mm b_l__v_s g_n_t_cs w_ll _mpr_v_ __r l_v_s.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

scientists are working on bringing back the woolly mammoth the giant creature is an ancestor of the asian elephant it became extinct over 4000 years ago but scientists and entrepreneurs want to bring it back to life the idea is like something from the movie jurassic park scientists will use the dna from the bones of a mammoth found in siberia to revive the mammoth they will also use cloning techniques it would be the first time since the Ice Age for a mammoth to walk on the earth the lead scientist is professor george church a geneticist from harvard medical school he is an expert in gene editing an entrepreneur ben lamm said our goal is to have our first calves in the next four to six years

ben lamm is founder of a technology and software company called colossal he has provided 15 million for the research to move forward he said he has big plans to bring the mammoth back to life and to revive other species he said he hoped to rapidly advance the field of species deextinction and to restore the woolly mammoth to the arctic tundra mr lamm believes the research will result in innovations that will benefit biotechnology and health care lamm compared the project to the apollo missions to the moon he said they made people excited about space they led to the development of everyday products like freezedried food and of technology such as gps mr lamm believes genetics will improve our lives

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Scientists are working on bringing back the woolly mammoth. The giant creature is an ancestor of the Asian elephant. It became extinct over 4,000 years ago, but scientists and entrepreneurs want to bring it back to life. The idea is like something from the movie Jurassic Park. Scientists will use the DNA from the bones of a mammoth found in Siberia to revive the mammoth. They will also use cloning techniques. It would be the first time since the Ice Age for a mammoth to walk on the earth. The lead scientist is professor George Church, a geneticist from Harvard Medical School. He is an expert in gene editing. An entrepreneur, Ben Lamm, said: "Our goal is to have our first calves in the next four to six years." Ben Lamm is founder of a technology and software company called Colossal. He has provided \$15 million for the research to move forward. He said he has big plans to bring the mammoth back to life and to revive other species. He said he hoped to "rapidly advance the field of species de-extinction" and "to restore the woolly mammoth to the Arctic tundra". Mr Lamm believes the research will result in innovations that will benefit biotechnology and healthcare. Lamm compared the project to the Apollo mission to the moon. He said they made people excited about space. They led to the development of everyday products like freeze-dried food, and of technologies such as GPS. Mr Lamm believes genetics will improve our lives.

FREE WRITING

From <https://breakingnewsenglish.com/2109/210916-woolly-mammoths.html>

Write about **mammoths** for 10 minutes. Comment on your partner’s paper.

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

4. GENETICS: Write a magazine article about using genetics to bring back extinct species. 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 mammoths. Ask him/her three questions about them. Give him/her three of your opinions on bringing back woolly mammoths. 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)

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

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

1. The Asian elephant
2. Over 4,000 years ago
3. Mammoth bones
4. Gene editing
5. In the next four to six years
6. A technology and software company
7. Other species
8. The Arctic tundra
9. The Apollo missions to the moon
10. Our lives

WORDS IN THE RIGHT ORDER (p.19)

1. Scientists are working on bringing back the mammoth.
2. The mammoth became extinct over 4,000 years ago.
3. The idea is like something from a movie.
4. The first time since the Ice Age.
5. In the next four to six years.
6. He has provided \$15 million for the research.
7. Rapidly advance the field of species de-extinction.
8. He said they made people excited about space.
9. They led to the development of everyday products.
10. Mr Lamm believes genetics will improve our lives.

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 ;-)