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Level 3 – 6th March, 2019

Scientists gave mice night vision

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<https://breakingnewsenglish.com/1903/190306-night-vision.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/1903/190306-night-vision.html>

Would you like to be able to see in the dark? One day this might be possible. Scientists have done tests on mice and have given them the ability to see near-infrared light. This is a kind of light wave that mice (and humans) cannot normally see. Research teams from the University of Science and Technology of China and the University of Massachusetts Medical School changed the vision of the test mice. They injected special nanoparticles into their eyes. These tiny particles let the mice see better in the dark. The effect of the injections lasted for around 10 weeks. The scientists said the eyesight of the mice was not damaged and the eyes did not suffer from any side effects.

The research is now published in the research journal 'Cell'. The researchers say they hope the same tests could be done with humans. Researcher Dr Tian Xue explained what he hopes for the future. He said: "Human beings have been trying to develop new technology to enable abilities that are beyond our natural abilities." He said future tests could let humans see things in the dark that they cannot see now. Dr Tian added: "Another cool thing about this potential technology is that it wouldn't require a person to wear heavy and energy-intensive equipment, such as night-vision goggles." He also said: "The military will very likely be interested in this work."

Sources: <https://www.gizmodo.com.au/2019/03/incredible-experiment-gives-infrared-vision-to-miceand-humans-could-be-next/>
<https://www.geek.com/news/nanotechnology-gives-mice-night-vision/>
[https://www.cell.com/cell/fulltext/S0092-8674\(19\)30101-1](https://www.cell.com/cell/fulltext/S0092-8674(19)30101-1)

WARM-UPS

1. NIGHT VISION: Students walk around the class and talk to other students about night vision. 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 dark / scientist / mice / ability / light / vision / injections / eyesight / side effects
research / tests / humans / develop / natural abilities / technology / potential / work

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

3. SEEING IN THE DARK: Students A **strongly** believe being able to see in the dark is important; Students B **strongly** believe it isn't. Change partners again and talk about your conversations.

4. INTERESTED: Why would these things be interested in being able to see in the dark? Complete this table with your partner(s). Change partners often and share what you wrote.

	Why?	What could they do?
Military		
Car drivers		
Children		
Miners		
Spies		
Students		

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

6. EXTRA ABILITIES: Rank these with your partner. Put the best at the top. Change partners often and share your rankings.

- night vision
- X-ray vision
- reading minds
- hypnosis
- super strength
- run like the wind
- ability of flight
- predicting the future

VOCABULARY MATCHING

Paragraph 1

- | | |
|-----------------|---|
| 1. possible | a. Able to be done. |
| 2. ability | b. Experience something bad or painful. |
| 3. wave | c. Having the skill to do something. |
| 4. vision | d. Put a liquid into your body through a needle. |
| 5. injected | e. The way light or sound travels. |
| 6. suffer | f. The ability to see. |
| 7. side effects | g. Bad things that happen to you after you have medicine. |

Paragraph 2

- | | |
|---------------|---|
| 8. journal | h. Fashionably attractive or impressive. |
| 9. humans | i. Outside the limits of. |
| 10. develop | j. A newspaper or magazine that deals with a particular subject or professional activity. |
| 11. beyond | k. Having or showing the ability to become or develop into something in the future. |
| 12. cool | l. People. |
| 13. potential | m. Relating to or characteristic of soldiers or armed forces. |
| 14. military | n. Grow or cause to grow and become more mature or advanced. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

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

- a. The article said we will be able to see in the dark for one day. **T / F**
- b. Humans can see near-infrared light. **T / F**
- c. Scientists injected things into the eyes of mice. **T / F**
- d. The effects of the injections lasted for around 10 days. **T / F**
- e. The research is published in a journal called "Cell". **T / F**
- f. Researchers said they would not test this technology on humans. **T / F**
- g. This new technology means there will be no need for goggles. **T / F**
- h. The military could be interested in this technology. **T / F**

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

- | | |
|---------------------|-----------------|
| 1. possible | a. greater than |
| 2. kind | b. very small |
| 3. vision | c. doable |
| 4. tiny | d. gadgets |
| 5. suffer | e. possibility |
| 6. published | f. eyesight |
| 7. beyond | g. army |
| 8. potential | h. type |
| 9. equipment | i. issued |
| 10. military | j. experience |

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

- | | |
|---|----------------------------|
| 1. Scientists have done | a. journal 'Cell' |
| 2. given them the ability to | b. effects |
| 3. They injected special nanoparticles | c. intensive equipment |
| 4. The effect of the injections lasted | d. into their eyes |
| 5. the eyes did not suffer from any side | e. in this work |
| 6. published in the research | f. tests on mice |
| 7. beyond our natural | g. about this |
| 8. Another cool thing | h. for around 10 weeks |
| 9. wear heavy and energy- | i. abilities |
| 10. The military will very likely be interested | j. see near-infrared light |

GAP FILL

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Would you like to be (1) _____ to see in the dark? One day this might be possible. Scientists have (2) _____ tests on mice and have given them the ability to see near-infrared light. This is a (3) _____ of light wave that mice (and humans) cannot normally see. Research (4) _____ from the University of Science and Technology of China and the University of Massachusetts Medical School changed the (5) _____ of the test mice. They injected special nanoparticles into their eyes. These tiny particles let the mice see (6) _____ in the dark. The effect of the injections (7) _____ for around 10 weeks. The scientists said the eyesight of the mice was not damaged and the eyes did not suffer from any (8) _____ effects.

kind
vision
able
lasted
done
side
teams
better

The research is now (9) _____ in the research journal 'Cell'. The researchers say they hope the same tests could be done with (10) _____. Researcher Dr Tian Xue explained what he hopes for the future. He said: "Human beings have been trying to (11) _____ new technology to enable abilities that are beyond our natural abilities." He said (12) _____ tests could let humans see things in the dark that they cannot see now. Dr Tian added: "Another (13) _____ thing about this potential (14) _____ is that it wouldn't require a person to wear heavy and energy-intensive (15) _____, such as night-vision goggles." He also said: "The military will very (16) _____ be interested in this work."

humans
cool
likely
published
future
equipment
develop
technology

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

- 1) Would you like to be able to see in the dark? One day this _____
 - a. might be possibly
 - b. might be passible
 - c. might be possible
 - d. might be posy ball
- 2) tests on mice and have given them the ability to see near- _____
 - a. infrared lit
 - b. infrared light
 - c. infrared alight
 - d. infrared alighted
- 3) changed the vision of the test mice. They injected special nanoparticles _____
 - a. into their eyes
 - b. on two their eyes
 - c. unto their eyes
 - d. in two their eyes
- 4) These tiny particles let the mice see better _____
 - a. in the darks
 - b. in the darkly
 - c. in the darkest
 - d. in the dark
- 5) the eyesight of the mice was not damaged and the eyes did not suffer from _____
 - a. any side affects
 - b. any side reflects
 - c. any side defects
 - d. any side effects
- 6) The research is now published in the research _____
 - a. jury all 'Cell'
 - b. journals 'Cell'
 - c. journal 'Cell'
 - d. jury and all 'Cell'
- 7) The researchers say they hope the same tests could be done _____
 - a. with humane
 - b. with hue mains
 - c. with hew mains
 - d. with humans
- 8) Human beings have been trying to develop new technology _____
 - a. to disable abilities
 - b. to re-enable abilities
 - c. to any ball abilities
 - d. to enable abilities
- 9) it wouldn't require a person to wear heavy and energy- _____
 - a. intensive equipped meant
 - b. intensive equipment
 - c. intensive equipping meant
 - d. intensive equip mint
- 10) The military will very likely be interested _____
 - a. in this working
 - b. in this works
 - c. in this work
 - d. in this worker

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Would you like to be (1) _____ in the dark? One day this might be possible. Scientists have done tests on mice and have given them the (2) _____ near-infrared light. This is a kind of light wave that mice (and humans) (3) _____. Research teams from the University of Science and Technology of China and the University of Massachusetts Medical School (4) _____ of the test mice. They injected special nanoparticles into their eyes. These tiny particles let the mice see better in the dark. The effect (5) _____ lasted for around 10 weeks. The scientists said the eyesight of the mice was not damaged and the eyes did not suffer from (6) _____.

The research is now published (7) _____ journal 'Cell'. The researchers say they hope the same tests could be done with humans. Researcher Dr Tian Xue explained what he hopes (8) _____. He said: "Human beings have been trying to develop new technology to enable abilities that are (9) _____ abilities." He said future tests could let humans see things in the dark that they cannot see now. Dr Tian added: "Another (10) _____ this potential technology is that it wouldn't (11) _____ to wear heavy and energy-intensive equipment, such as night-vision goggles." He also said: "The military will (12) _____ interested in this work."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

1. When did the article say we might be able to see in the dark?
2. Which two countries are the research universities from?
3. What did scientists inject into the mice's eyes?
4. How long did the effects of injections last?
5. What did the mice not suffer from?
6. What is the name of the journal the research is published in?
7. Who is Tian Xue?
8. What word did a researcher use to describe this potential technology?
9. What kind of equipment might we not need if we use this technology?
10. Who did a researcher say might be interested in this research?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

- 1) When did the article say we might be able to see in the dark?
 - a) next year
 - b) one day
 - c) soon
 - d) July 2020
- 2) Which two countries are the research universities from?
 - a) Japan and the USA
 - b) China and Japan
 - c) the USA and Canada
 - d) China and the USA
- 3) What did scientists inject into the mice's eyes?
 - a) liquid
 - b) tiny lenses
 - c) nanoparticles
 - d) water
- 4) How long did the effects of injections last?
 - a) around 10 weeks
 - b) around 10 days
 - c) around 10 hours
 - d) around 10 months
- 5) What did the mice not suffer from?
 - a) influenza
 - b) side effects
 - c) blindness
 - d) poor eyesight
- 6) What is the name of the journal the research is published in?
 - a) Cell
 - b) Sight
 - c) Vision
 - d) Nanoparticles
- 7) Who is Tian Xue?
 - a) a mouse expert
 - b) a writer
 - c) a researcher
 - d) an optician
- 8) What word did a researcher use to describe this potential technology?
 - a) cool
 - b) crazy
 - c) clever
 - d) classy
- 9) What kind of equipment might we not need if we use this technology?
 - a) electric lights
 - b) computers
 - c) glasses
 - d) night-vision goggles
- 10) Who did a researcher say might be interested in this research?
 - a) the police
 - b) school children
 - c) the military
 - d) pet shops

ROLE PLAY

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Role A – Night Vision

You think night vision is the best extra ability. Tell the others three reasons why. Tell them why their things aren't as useful. Also, tell the others which is the least useful of these (and why): hypnosis, predicting the future or reading minds.

Role B – Hypnosis

You think hypnosis is the best extra ability. Tell the others three reasons why. Tell them why their things aren't as useful. Also, tell the others which is the least useful of these (and why): night vision, predicting the future or reading minds.

Role C – Predicting the Future

You think predicting the future is the best extra ability. Tell the others three reasons why. Tell them why their things aren't as useful. Also, tell the others which is the least useful of these (and why): hypnosis, night vision or reading minds.

Role D – Reading Minds

You think reading minds is the best extra ability. Tell the others three reasons why. Tell them why their things aren't as useful. Also, tell the others which is the least useful of these (and why): hypnosis, predicting the future or night vision.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

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

night	vision

- 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">• like• kind• teams• special• tiny• suffer	<ul style="list-style-type: none">• journal• future• develop• now• heavy• likely
---	---

NIGHT VISION SURVEY

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Write five GOOD questions about night vision 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.

NIGHT VISION 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 'night'?
3. What do you think of this research?
4. Would you like to be able to see in the dark?
5. How would life change if you could see in the dark?
6. Could we save energy if we could see in the dark?
7. What is your eyesight like?
8. Would you have the injection in your eyes?
9. Should scientists be testing mice?
10. What do you think of mice?

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NIGHT VISION 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 'vision'?
13. What do you think about what you read?
14. Would you like night vision or X-ray vision?
15. How interested are you in science?
16. What extra-human abilities would you like?
17. What other abilities would you like for your eyes?
18. What negative things are there to this technology?
19. What would the military do with this technology?
20. What questions would you like to ask the researchers?

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/1903/190306-night-vision.html>

Would you like to be (1) _____ to see in the dark? One day this might be possible. Scientists have (2) _____ tests on mice and have given them the ability to see near-infrared light. This is a kind of light wave that mice (and humans) cannot (3) _____ see. Research teams from the University of Science and Technology of China and the University of Massachusetts Medical School changed the vision of the test mice. They (4) _____ special nanoparticles into their eyes. These tiny particles let the mice see better in the dark. The effect of the injections (5) _____ for around 10 weeks. The scientists said the eyesight of the mice was not damaged and the eyes did not suffer from any (6) _____ effects.

The research is now published in the research (7) _____ 'Cell'. The researchers say they hope the same tests could be done with humans. Researcher Dr Tian Xue explained what he hopes (8) _____ the future. He said: "Human beings have been trying to develop new technology to enable abilities that are (9) _____ our natural abilities." He said future tests could let humans see things in the dark that they cannot see now. Dr Tian added: "Another (10) _____ thing about this potential technology is that it wouldn't (11) _____ a person to wear heavy and energy-intensive equipment, such as night-vision goggles." He also said: "The military will very (12) _____ be interested in this work."

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

- | | | | | |
|-----|---------------|---------------|----------------|----------------|
| 1. | (a) able | (b) ability | (c) abilities | (d) capability |
| 2. | (a) did | (b) doing | (c) done | (d) does |
| 3. | (a) normal | (b) normality | (c) normally | (d) normalize |
| 4. | (a) impacted | (b) inspected | (c) infected | (d) injected |
| 5. | (a) ended | (b) finished | (c) lasted | (d) fasted |
| 6. | (a) edge | (b) side | (c) middle | (d) center |
| 7. | (a) comic | (b) journal | (c) diary | (d) magazine |
| 8. | (a) at | (b) for | (c) to | (d) on |
| 9. | (a) behind | (b) beneath | (c) beyond | (d) behest |
| 10. | (a) chilly | (b) freezing | (c) cold | (d) cool |
| 11. | (a) essential | (b) needy | (c) necessary | (d) require |
| 12. | (a) liked | (b) liking | (c) likelihood | (d) likely |

SPELLING

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Paragraph 1

1. the iibltya to see near-infrared light
2. cannot nrmaloyl see
3. tiny seiactrlp let the mice see better
4. The effect of the jtecsninio
5. the ehisteyg of the mice was not damaged
6. the eyes did not suffer from any side fetfsec

Paragraph 2

7. published in the research jorlnua
8. dvpeleo new technology
9. bdoeny our natural abilities
10. this lantoiept technology
11. energy-intensive eentqmpiu
12. The amlyrii will very likely be interested

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Number these lines in the correct order.

- () night-vision goggles." He also said: "The military will very likely be interested in this work."
- () our natural abilities." He said future tests could let humans see things in the dark that they cannot see
- () said the eyesight of the mice was not damaged and the eyes did not suffer from any side effects.
- () is that it wouldn't require a person to wear heavy and energy-intensive equipment, such as
- () future. He said: "Human beings have been trying to develop new technology to enable abilities that are beyond
- (**1**) Would you like to be able to see in the dark? One day this might be possible. Scientists have done tests
- () The research is now published in the research journal 'Cell'. The researchers say they hope the same
- () tests could be done with humans. Researcher Dr Tian Xue explained what he hopes for the
- () see better in the dark. The effect of the injections lasted for around 10 weeks. The scientists
- () now. Dr Tian added: "Another cool thing about this potential technology
- () and Technology of China and the University of Massachusetts Medical School changed the vision of the test
- () on mice and have given them the ability to see near-infrared light. This is a kind of light
- () mice. They injected special nanoparticles into their eyes. These tiny particles let the mice
- () wave that mice (and humans) cannot normally see. Research teams from the University of Science

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

1. the Given ability see to them near-infrared light .
2. nanoparticles into special They eyes . their injected
3. tiny particles These better . mice let see the
4. damaged . eyesight the mice not of was The
5. not any eyes did effects . suffer side The
6. journal . The is now research the in published
7. tests The with be humans . same done could
8. technology . have been trying develop to Humans new
9. potential cool technology . Another this thing about
10. be military in this will The interested work .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Would you like to be *able* / *ability* to see in the dark? One day this might be possible. Scientists have done tests on mice and have *gave* / *given* them the ability to see near-infrared light. This is a kind of light *waving* / *wave* that mice (and humans) cannot *normally* / *normal* see. Research teams from the University of Science and Technology of China and the University of Massachusetts Medical School changed the *visor* / *vision* of the test mice. They injected *specially* / *special* nanoparticles into their eyes. These tiny particles let the mice see *good* / *better* in the dark. The *effect* / *affect* of the injections lasted for *around* / *abound* 10 weeks. The scientists said the eyesight of the mice was not damaged and the eyes did not suffer from any *edge* / *side* effects.

The research is now *published* / *publish* in the research journal 'Cell'. The researchers say they *hope* / *hoping* the same tests could be *done* / *doing* with humans. Researcher Dr Tian Xue explained what he hopes for the future. He said: "Human beings have been trying *to* / *for* develop new technology to enable abilities that are beyond our *naturally* / *natural* abilities." He said future tests could *bet* / *let* humans see things in the dark that they cannot *see* / *seeing* now. Dr Tian added: "Another *cool* / *cold* thing about this potential technology is that it wouldn't require a person to wear heavy and energy-intensive *equip* / *equipment*, such as night-vision goggles." He also said: "The military will very *liked* / *likely* be interested in this work."

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/1903/190306-night-vision.html>

W__ l d y__ l_k_ t_ b_ _b l_ t_ s__ _n th_ d_r k ?
O n_ d_y th_s m_g h t b_ p_s s_b l_. S c__ n t_s t s
h_v_ d_n_ t_s t s _n m_c_ _n d h_v_ g_v_n th_m t
h_ _b_l_t_y t_ s__ n__ r -_n f_r_r_d l_g h t . Th_s
_s _ k_n d _f l_g h t w_v_ th_t m_c_ (_n d h_m_n
s) c_n n_t n_r m_l_l_y s__ . R_s__ r_c h t__ m_s f
r_m th_ U n_v_r s_t y _f S c__ n c_ _n d T_c h n_l_g
y _f C h_n_ _n d th_ U n_v_r s_t y _f M_s s_c h_s t t
s M_d_c_l S c h__ l c h_n g_d th_ v_s__ n _f th_
t_s t m_c_. Th_y _n j_c t_d s p_c__ l n_n_p_r t_c l_s
n t th__ r _y_s . Th_s_ t_n y p_r t_c l_s l_t th_
m_c_ s__ b_t t_r _n th_ d_r k . Th_ _f f_c t _f t
h_ _n j_c t__ n s l_s t_d f_r _r__ n d 10 w__ k s .
Th_ s c__ n t_s t s s__ d th_ _y_s_g h t _f th_
m_c_ w_s n_t d_m_g_d _n d th_ _y_s d_d n_t s_f
f_r f_r_m _n y s_d_ _f f_c t s .

Th_ r_s__ r_c h _s n_w p_b l_s h_d _n th_ r_s__ r_c
h j__ r n_l 'C_l_l'. Th_ r_s__ r_c h_r s s_y th_y
h_p_ th_ s_m_ t_s t s c__ l d b_ d_n_ w_t h h_m_n
s . R_s__ r_c h_r D_r T__ n X__ _x p_l__ n_d w_h_t
h_ h_p_s f_r th_ f_t_r_. H_ s__ d : " H_m_n b__ n
g_s h_v_ b__ n t_r y_n g t_ d_v_l_p n_w t_c h n_l_g
y t_ n_b_l_ _b_l_t__ s th_t _r_ b_y_n d __ r n_t_r_l
_b_l_t__ s . " H_ s__ d f_t_r_ t_s t s c__ l d l_t
h_m_n s s__ th_n_g_s _n th_ d_r k th_t th_y
c_n n_t s__ n_w . D_r T__ n _d d_d : " A n_t h_r
c__ l th_n_g _b__ t th_s p_t_n t__ l t_c h n_l_g y
_s th_t _t w__ l d n 't r_q__ r_ _ p_r s_n t_ w__ r
h__ v_y _n d _n_r g_y _n t_n s_v_ _q__ p_m_n t , s_c h
_s n_g h t - v_s__ n g_g g_l_s . " H_ l_s_ s__ d : " T
h_ m_l_t_r y w_l l v_r y l_k_l y b_ _n t_r_s t_d _n t
h_s w_r k . "

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

would you like to be able to see in the dark one day this might be possible scientists have done tests on mice and have given them the ability to see nearinfrared light this is a kind of light wave that mice and humans cannot normally see research teams from the university of science and technology of china and the university of massachusetts medical school changed the vision of the test mice they injected special nanoparticles into their eyes these tiny particles let the mice see better in the dark the effect of the injections lasted for around 10 weeks the scientists said the eyesight of the mice was not damaged and the eyes did not suffer from any side effects

the research is now published in the research journal cell the researchers say they hope the same tests could be done with humans researcher dr tian xue explained what he hopes for the future he said human beings have been trying to develop new technology to enable abilities that are beyond our natural abilities he said future tests could let humans see things in the dark that they cannot see now dr tian added another cool thing about this potential technology is that it wouldnt require a person to wear heavy and energyintensive equipment such as nightvision goggles he also said the military will very likely be interested in this work

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1903/190306-night-vision.html>

Would you like to be able to see in the dark? One day this might be possible. Scientists have done tests on mice and have given them the ability to see ear-infrared light. This is a kind of light wave that mice (and humans) cannot normally see. Research teams from the University of Science and Technology of China and the University of Massachusetts Medical School changed the vision of the test mice. They injected special nanoparticles into their eyes. These tiny particles let the mice see better in the dark. The effect of the injections lasted for around 10 weeks. The scientists said the eyesight of the mice was not damaged and the eyes did not suffer from any side effects. The research is now published in the research journal 'Cell'. The researchers say they hope the same tests could be done with humans. Researcher Dr Tian Xue explained what he hopes for the future. He said: "Human beings have been trying to develop new technology to enable abilities that are beyond our natural abilities." He said future tests could let humans see things in the dark that they cannot see now. Dr Tian added: "Another cool thing about this potential technology is that it wouldn't require a person to wear heavy and energy-intensive equipment, such as night-vision goggles." He also said: "The military will very likely be interested in this work."

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. NIGHT VISION: Make a poster about night vision. Show your work to your classmates in the next lesson. Did you all have similar things?

4. INJECTIONS: Write a magazine article about giving everyone an injection to have night vision. 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 night vision. Ask him/her three questions about night vision. Give him/her three of your ideas. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

- | | |
|--------------|-----------------|
| 1. possible | a. doable |
| 2. kind | b. type |
| 3. vision | c. eyesight |
| 4. tiny | d. very small |
| 5. suffer | e. experience |
| 6. published | f. issued |
| 7. beyond | g. greater than |
| 8. potential | h. possibility |
| 9. equipment | i. gadgets |
| 10. military | j. army |

COMPREHENSION QUESTIONS (p.9)

1. One day
2. China and the USA
3. Nanoparticles
4. Around 10 weeks
5. Side effects
6. Cell
7. A researcher
8. Cool
9. Night-vision goggles
10. The military

WORDS IN THE RIGHT ORDER (p.20)

1. Given them the ability to see near-infrared light.
2. They injected special nanoparticles into their eyes.
3. These tiny particles let the mice see better.
4. The eyesight of the mice was not damaged.
5. The eyes did not suffer any side effects.
6. The research is now published in the journal.
7. The same tests could be done with humans.
8. Humans have been trying to develop new technology.
9. Another cool thing about this potential technology.
10. The military will be interested in this work.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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