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**Level 6 – 10th January, 2021**

## Identical twins are not so identical

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

<https://breakingnewsenglish.com/2101/210110-identical-twins.html>

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

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# THE ARTICLE

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

A new study shows that while identical twins can look perfectly alike, it is not a perfect similarity. They are not clones of each other. Scientists at the University of Iceland analyzed the DNA from 387 pairs of identical twins - babies born from a single fertilized egg. The scientists compared the DNA with that of the twins' parents and children. The geneticists looked for mutations in the early stages of development. A mutation is a tiny change in the sequence of the DNA that can occur when a cell divides. This change causes a slight difference in the DNA replication process. A single, tiny change can create differences in height, intelligence, eye colour and even in susceptibility to disease.

The study shows that identical twins do not share totally identical DNA. In about 15 per cent of identical twin pairs, one twin carried a "substantial" number of mutations that the other did not share. The scientists say this difference is important as it sheds light on the "nature versus nurture" debate. This is whether human behaviour is determined by the environment, socialization and upbringing, or by a person's genes. The research shows that this tiny difference, and not environmental factors, could be the reason why one twin develops different behavioural characteristics or medical conditions. Professor Kari Stefansson said a genetic mutation may be the source of a given disease or trait.

Sources: <https://www.theguardian.com/science/2021/jan/08/identical-twins-are-not-so-identical-study-suggests>  
[https://www.huffpost.com/entry/twins-not-perfect-clones-study\\_n\\_5ff785b2c5b6fc79f463c60c](https://www.huffpost.com/entry/twins-not-perfect-clones-study_n_5ff785b2c5b6fc79f463c60c)  
<https://www.livescience.com/identical-twins-dont-share-all-dna.html>

# WARM-UPS

**1. IDENTICAL TWINS:** Students walk around the class and talk to other students about identical twins. 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?

identical / twins / perfect / similarity / clone / parents / geneticists / mutation / height share / scientists / nature / nurture / human behaviour / genes / medical / disease

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

**3. DNA:** Students A **strongly** believe scientists should amend DNA to make us healthier; Students B **strongly** believe otherwise. Change partners again and talk about your conversations.

**4. CHILD:** What are the good and bad things about being one of these? Complete this table with your partner(s). Change partners often and share what you wrote.

	Good Things	Bad Things
An identical twin		
A quadruplet		
An only child		
The eldest sibling		
The youngest sibling		
The middle of 9 children		

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

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

- Good looks
- Intelligence
- Sense of humor
- Being tall
- Optimistic
- Energetic
- Hair
- Good skin

# VOCABULARY MATCHING

## Paragraph 1

- |                   |  |
|-------------------|--|
| 1. alike          | a. A person or thing regarded as identical to another.   |
| 2. clone          | b. The action of copying or reproducing something.   |
| 3. fertilized     | c. Two or more subjects similar to each other.   |
| 4. replication    | d. A particular order in which related events, movements, or things follow each other.                           |
| 5. mutation       | e. The action or process of changing or causing to change in form or nature.                                     |
| 6. sequence       | f. The state or fact of being likely or liable to be influenced or harmed by a particular thing.                 |
| 7. susceptibility | g. Caused an egg, female animal, or plant to develop a new individual by introducing male reproductive material. |

## Paragraph 2

- |                    |  |
|--------------------|--|
| 8. substantial     | h. A distinguishing quality or characteristic, typically one belonging to a person.                                |
| 9. shed light on   | i. The treatment and instruction received by a child from its parents throughout its childhood.                    |
| 10. nurture        | j. Unit of information transferred from a parent to child that causes characteristics or behaviours in that child. |
| 11. upbringing     | k. Of considerable importance, size, or value.   |
| 12. genes          | l. Help to explain something by providing further information about it.  |
| 13. characteristic | m. A feature or quality belonging typically to a person, place, or thing and serving to identify it.               |
| 14. trait          | n. Care for and encourage the growth or development of.  |

# BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

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

- a. A study suggests identical twins could in fact be clones of each other. **T / F**
- b. Scientists looked at data from 387 identical twins. **T / F**
- c. Scientists ignored any mutations found in DNA. **T / F**
- d. A change in the DNA replication process can affect intelligence. **T / F**
- e. About 15% of identical twin pairs had totally identical DNA. **T / F**
- f. The research adds understanding to the nature versus nurture debate. **T / F**
- g. The research shows DNA mutations makes identical twins less identical. **T / F**
- h. A professor said genetic mutations might give rise to a certain trait. **T / F**

## 2. SYNONYM MATCH:

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

- |                          |                     |
|--------------------------|---------------------|
| 1. <b>perfectly</b>      | a. childhood        |
| 2. <b>analyzed</b>       | b. alteration       |
| 3. <b>single</b>         | c. helps to explain |
| 4. <b>mutation</b>       | d. vulnerability    |
| 5. <b>susceptibility</b> | e. examined         |
| 6. <b>substantial</b>    | f. affected         |
| 7. <b>sheds light on</b> | g. considerable     |
| 8. <b>determined</b>     | h. in every respect |
| 9. <b>upbringing</b>     | i. characteristic   |
| 10. <b>trait</b>         | j. solitary         |

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

- |  |                        |
|--|------------------------|
| 1. identical twins can look            | a. number of mutations |
| 2. They are not clones                 | b. disease             |
| 3. babies born from a single           | c. or trait            |
| 4. mutations in the early stages       | d. conditions          |
| 5. susceptibility to                   | e. of each other       |
| 6. a substantial                       | f. of development      |
| 7. it sheds light on the nature versus | g. and upbringing      |
| 8. the environment, socialization      | h. perfectly alike     |
| 9. medical                             | i. nurture debate      |
| 10. the source of a given disease      | j. fertilized egg      |

# GAP FILL

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

A new study shows that while identical twins can look  
(1) \_\_\_\_\_ alike, it is not a perfect  
(2) \_\_\_\_\_. They are not clones of each other.  
Scientists at the University of Iceland analyzed the DNA from 387  
pairs of identical twins - babies born from a  
(3) \_\_\_\_\_ fertilized egg. The scientists compared the  
DNA with that of the twins' parents and children. The geneticists  
looked for (4) \_\_\_\_\_ in the early stages of  
development. A mutation is a (5) \_\_\_\_\_ change in  
the sequence of the DNA that can occur when a cell  
(6) \_\_\_\_\_. This change causes a slight difference in  
the DNA replication (7) \_\_\_\_\_. A single, tiny change  
can create differences in height, intelligence, eye colour and even  
in (8) \_\_\_\_\_ to disease.

*single*  
*tiny*  
*process*  
*perfectly*  
*susceptibility*  
*similarity*  
*divides*  
*mutations*

The study shows that identical twins do not  
(9) \_\_\_\_\_ totally identical DNA. In about 15 per cent  
of identical twin pairs, one twin carried a  
"(10) \_\_\_\_\_" number of mutations that the other did  
not share. The scientists say this difference is important as it  
(11) \_\_\_\_\_ light on the "nature versus nurture"  
(12) \_\_\_\_\_. This is whether human behaviour is  
determined by the environment, socialization and upbringing, or  
by a person's (13) \_\_\_\_\_. The research shows that  
this tiny difference, and not environmental factors, could be the  
(14) \_\_\_\_\_ why one twin develops different  
behavioural characteristics or (15) \_\_\_\_\_ conditions.  
Professor Kari Stefansson said a genetic mutation may be the  
(16) \_\_\_\_\_ of a given disease or trait.

*substantial*  
*reason*  
*debate*  
*source*  
*sheds*  
*medical*  
*share*  
*genes*

# LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

- 1) A new study shows that while identical twins can \_\_\_\_\_
  - a. look perfectly as like
  - b. look perfect alike
  - c. look perfectly alike
  - d. look perfectly like
- 2) it is not a perfect similarity. They are not \_\_\_\_\_ other
  - a. cloze of each
  - b. close of each
  - c. clones of each
  - d. clone of each
- 3) DNA from 387 pairs of identical twins - babies born from a \_\_\_\_\_
  - a. single fertilized egg
  - b. single fertilize egg
  - c. singles fertilized egg
  - d. singled fertilized egg
- 4) A mutation is a tiny change in the sequence of the DNA that can \_\_\_\_\_ cell divides
  - a. occur what a
  - b. occur while a
  - c. occur when a
  - d. occur which a
- 5) differences in height, intelligence, eye colour and even in \_\_\_\_\_
  - a. susceptibility of disease
  - b. susceptibility at disease
  - c. susceptibility to disease
  - d. susceptibility on disease
- 6) The study shows that identical twins do not share \_\_\_\_\_
  - a. total identical DNA
  - b. totally identically DNA
  - c. totally identical DNA
  - d. totally identically DNA
- 7) identical twin pairs, one twin carried a "substantial" \_\_\_\_\_
  - a. numbers of mutations
  - b. number of mute stations
  - c. numb bar of mew stations
  - d. number of mutations
- 8) this difference is important as it sheds light on the "nature \_\_\_\_\_
  - a. versus nature" debate
  - b. versus natural" debate
  - c. versus venture" debate
  - d. versus nurture" debate
- 9) by the environment, socialization and upbringing, or by \_\_\_\_\_
  - a. ape person's genes
  - b. a person's jeans
  - c. ape person's jeans
  - d. a person's genes
- 10) a genetic mutation may be the source of a given \_\_\_\_\_
  - a. disease or trait
  - b. diseased or strait
  - c. disease or straight
  - d. disease or taint

# LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

A new study shows that while identical twins can (1) \_\_\_\_\_, it is not a perfect similarity. They are not (2) \_\_\_\_\_ other. Scientists at the University of Iceland analyzed the DNA from 387 pairs of identical twins - babies born from a (3) \_\_\_\_\_. The scientists compared the DNA with that of the twins' parents and children. The geneticists looked (4) \_\_\_\_\_ the early stages of development. A mutation is a tiny change in the sequence of the DNA that can occur when a cell divides. This change (5) \_\_\_\_\_ difference in the DNA replication process. A single, tiny change can create differences in height, intelligence, eye colour and even (6) \_\_\_\_\_ disease.

The study shows that identical twins do not (7) \_\_\_\_\_ DNA. In about 15 per cent of identical twin pairs, one twin (8) \_\_\_\_\_ number of mutations that the other did not share. The scientists say this difference is important as it (9) \_\_\_\_\_ the "nature versus nurture" debate. This is whether human behaviour is determined by the environment, socialization and upbringing, or by (10) \_\_\_\_\_. The research shows that this tiny difference, and not environmental factors, could be the reason why (11) \_\_\_\_\_ different behavioural characteristics or medical conditions. Professor Kari Stefansson said a genetic mutation may be the source of a given (12) \_\_\_\_\_.



# COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

1. What does the article say identical twins are not clones of?
2. How many identical twins did scientists look at the DNA of?
3. Whose DNA did scientists compare the twins' DNA to?
4. What did the scientists look for?
5. What might DNA mutations increase the susceptibility of?
6. What does the DNA show identical twins do not share?
7. What debate does the research shed light on?
8. What might affect our behaviour besides socialization and environment?
9. What might be the reason for differences in medical conditions?
10. What does a professor say may be the source of a disease or trait?

# MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

- 1) What does the article say identical twins are not clones of?
  - a) robots
  - b) each other
  - c) parents
  - d) grandparents
- 2) How many identical twins did scientists look at the DNA of?
  - a) 3,870
  - b) 387
  - c) 7,740
  - d) 774
- 3) Whose DNA did scientists compare the twins' DNA to?
  - a) a database
  - b) ancestors
  - c) parents and children
  - d) their own
- 4) What did the scientists look for?
  - a) mutations
  - b) DNA
  - c) cells
  - d) twins
- 5) What might DNA mutations increase the susceptibility of?
  - a) baldness
  - b) disease
  - c) a lack of energy
  - d) danger
- 6) What does the DNA show identical twins do not share?
  - a) totally identical DNA
  - b) intelligence
  - c) the same hair colour
  - d) the same height
- 7) What debate does the research shed light on?
  - a) the great debate
  - b) the debate on life
  - c) the nature versus nurture debate
  - d) an economic debate
- 8) What might affect our behaviour besides socialization and environment?
  - a) upbringing
  - b) chemicals
  - c) drugs
  - d) money
- 9) What might be the reason for differences in medical conditions?
  - a) upbringing
  - b) money
  - c) debate
  - d) a tiny difference in DNA
- 10) What does a professor say may be the source of a disease or trait?
  - a) wealth
  - b) global warming
  - c) a genetic mutation
  - d) social media

# ROLE PLAY

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

## **Role A – Good Looks**

You think good looks are the best thing to inherit from your parents. Tell the others three reasons why. Tell them why their things aren't as important. Also, tell the others which is the least important of these (and why): a sense of humour, being tall or intelligence.

## **Role B – Sense of Humour**

You think a sense of humour is the best thing to inherit from your parents. Tell the others three reasons why. Tell them why their things aren't as important. Also, tell the others which is the least important of these (and why): good looks, being tall or intelligence.

## **Role C – Being Tall**

You think being tall is the best thing to inherit from your parents. Tell the others three reasons why. Tell them why their things aren't as important. Also, tell the others which is the least important of these (and why): a sense of humour, good looks or intelligence.

## **Role D – Intelligence**

You think intelligence is the best thing to inherit from your parents. Tell the others three reasons why. Tell them why their things aren't as important. Also, tell the others which is the least important of these (and why): a sense of humour, being tall or good looks.

# AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

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

identical	twins

- 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"><li>• while</li><li>• clones</li><li>• born</li><li>• early</li><li>• slight</li><li>• create</li></ul>	<ul style="list-style-type: none"><li>• shows</li><li>• carried</li><li>• sheds</li><li>• genes</li><li>• reason</li><li>• trait</li></ul>
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# IDENTICAL TWINS SURVEY

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

Write five GOOD questions about identical twins 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.

# IDENTICAL TWINS 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 'identical'?
3. What do you know about twins?
4. What are the good things about being an identical twin?
5. What do you think of cloning?
6. What do you know about DNA?
7. How much do you look like your parents or siblings?
8. In what ways do you take after your parents?
9. Would you like to be an identical twin?
10. Would you prefer to be a twin or a quadruplet?

*Identical twins are not so identical – 10th January, 2021*  
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# IDENTICAL TWINS 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 'twins'?
13. What do you think about what you read?
14. What are the differences between twins and identical twins?
15. What do you know of the 'nature versus nurture' debate?
16. What parts of your genes would you want to go to your children?
17. Are we born with our personality or does our upbringing make it?
18. What changes would you have wanted made to your DNA?
19. How did your upbringing change you?
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/2101/210110-identical-twins.html>

A new study shows that while identical twins can look perfectly (1) \_\_\_\_\_, it is not a perfect similarity. They are not (2) \_\_\_\_\_ of each other. Scientists at the University of Iceland analyzed the DNA from 387 pairs of identical twins - babies born from a (3) \_\_\_\_\_ fertilized egg. The scientists compared the DNA with (4) \_\_\_\_\_ of the twins' parents and children. The geneticists looked for mutations in the early stages of development. A mutation is a tiny change in the sequence of the DNA that can occur when a cell divides. This change causes a (5) \_\_\_\_\_ difference in the DNA replication process. A single, tiny change can create differences in height, intelligence, eye colour and even in susceptibility (6) \_\_\_\_\_ disease.

The study shows that identical twins do not (7) \_\_\_\_\_ totally identical DNA. In about 15 per cent of identical twin pairs, one twin carried a "substantial" number of mutations that the (8) \_\_\_\_\_ did not share. The scientists say this difference is important as it sheds light on the "nature versus (9) \_\_\_\_\_" debate. This is whether human behaviour is determined (10) \_\_\_\_\_ the environment, socialization and upbringing, or by a person's genes. The research shows that this tiny difference, and not environmental factors, could (11) \_\_\_\_\_ the reason why one twin develops different behavioural characteristics or medical conditions. Professor Kari Stefansson said a genetic mutation may be the source of a given disease or (12) \_\_\_\_\_.

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

- |     |                  |              |             |             |
|-----|------------------|--------------|-------------|-------------|
| 1.  | (a) likely       | (b) alike    | (c) liked   | (d) liking  |
| 2.  | (a) cloze        | (b) clones   | (c) clothes | (d) closed  |
| 3.  | (a) singled out  | (b) singled  | (c) singles | (d) single  |
| 4.  | (a) them         | (b) that     | (c) this    | (d) those   |
| 5.  | (a) blight       | (b) smite    | (c) fright  | (d) slight  |
| 6.  | (a) of           | (b) on       | (c) to      | (d) at      |
| 7.  | (a) share        | (b) shave    | (c) shade   | (d) shape   |
| 8.  | (a) others       | (b) another  | (c) other   | (d) otherly |
| 9.  | (a) naturalistic | (b) naturism | (c) natural | (d) nurture |
| 10. | (a) by           | (b) of       | (c) on      | (d) at      |
| 11. | (a) be           | (b) do       | (c) have    | (d) pertain |
| 12. | (a) trait        | (b) trail    | (c) train   | (d) traipse |



# SPELLING

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

## Paragraph 1

1. it is not a perfect aimriilsyt
2. from a single rlzdiietfe egg
3. A tiomaunt is a tiny change
4. the esceuqne of the DNA
5. the DNA nicitoprae process
6. ipbicsteyltisu to disease

## Paragraph 2

7. one twin carried a tsnastibula number
8. the nature versus ruenrut debate
9. the environment, socialization and ibnirgugpn
10. a person's sngce
11. behavioural aiartcerscsthci
12. a given disease or rttai

# PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

**Number these lines in the correct order.**

- ( ) difference in the DNA replication process. A single, tiny change can create differences
- ( ) conditions. Professor Kari Stefansson said a genetic mutation may be the source of a given disease or trait.
- ( ) change in the sequence of the DNA that can occur when a cell divides. This change causes a slight
- ( ) The study shows that identical twins do not share totally identical DNA. In about 15 per cent of identical twin pairs, one
- ( ) twin carried a "substantial" number of mutations that the other did not share. The scientists say this difference
- ( ) and children. The geneticists looked for mutations in the early stages of development. A mutation is a tiny
- ( ) is important as it sheds light on the "nature versus nurture" debate. This is whether human
- ( ) genes. The research shows that this tiny difference, and not environmental factors, could
- ( **1** ) A new study shows that while identical twins can look perfectly alike, it is not a perfect similarity. They are not clones
- ( ) be the reason why one twin develops different behavioural characteristics or medical
- ( ) behaviour is determined by the environment, socialization and upbringing, or by a person's
- ( ) born from a single fertilized egg. The scientists compared the DNA with that of the twins' parents
- ( ) of each other. Scientists at the University of Iceland analyzed the DNA from 387 pairs of identical twins - babies
- ( ) in height, intelligence, eye colour and even in susceptibility to disease.

# PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

1. of clones are not other . each They
2. egg . single Twin babies from fertilized born a
3. mutations early in stages . for Geneticists the looked
4. the sequence changes the DNA . in of Tiny
5. differences create A can change single in height .
6. share not totally twins DNA . identical do Identical
7. carried substantial twin One mutations . of a number
8. nurture" versus the "nature debate . Shed light on
9. one The why develops reason characteristics . twin different
10. the A source . genetic be may mutation

# CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

A new study shows that while *identically / identical* twins can look perfectly alike, it is not a perfect similarity. They are not *clozes / clones* of each other. Scientists at the University of Iceland analyzed the DNA from 387 pairs of identical twins - babies born from a single *sterilized / fertilized* egg. The scientists compared the DNA with *that / those* of the twins' parents and children. The geneticists looked for mutations in the *fast / early* stages of development. A *mutation / mutant* is a tiny change in the sequence of the DNA that can occur when a cell *shares / divides*. This change causes a *smite / slight* difference in the DNA replication process. A single, tiny change can create differences *in / on* height, intelligence, eye colour and even in *susceptibility / perceptibility* to disease.

The study shows that identical twins do not share *total / totally* identical DNA. In about 15 per cent of identical twin pairs, one twin carried a "*substantial / substantially*" number of mutations that the other did not share. The scientists say this *diffidence / difference* is important as it *shacks / sheds* light on the "nature versus *nurture / naturism*" debate. This is whether human behaviour is determined *of / by* the environment, socialization and upbringing, or by a person's *genes / jeans*. The research shows that this tiny difference, and not environmental *factors / factories*, could be the reason why *once / one* twin develops different behavioural characteristics or medical conditions. Professor Kari Stefansson said a genetic mutation may be the *source / sauce* of a given disease or trait.

**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/2101/210110-identical-twins.html>

\_ n\_w st\_dy sh\_ws th\_t wh\_l\_ \_d\_nt\_c\_l tw\_ns c\_n  
l\_\_k p\_rf\_ctly \_l\_k\_, \_t \_s n\_t \_ p\_rf\_ct s\_m\_l\_r\_ty.  
Th\_y \_r\_ n\_t cl\_n\_s \_f \_\_ch \_th\_r. Sc\_\_nt\_sts \_t th\_  
\_n\_v\_rs\_ty \_f \_c\_l\_nd \_n\_lyz\_d th\_ DN\_ fr\_m 387  
p\_\_rs \_f \_d\_nt\_c\_l tw\_ns - b\_b\_\_s b\_rn fr\_m \_ s\_ngl\_  
f\_rt\_l\_z\_d \_gg. Th\_ sc\_\_nt\_sts c\_mp\_r\_d th\_ DN\_ w\_th  
th\_t \_f th\_ tw\_ns' p\_r\_nts \_nd ch\_ldr\_n. Th\_  
g\_n\_t\_c\_sts l\_\_k\_d fr\_m\_t\_t\_\_ns \_n th\_ \_\_rly st\_g\_s  
\_f d\_v\_l\_pm\_nt. \_ m\_t\_t\_\_n \_s \_ t\_ny ch\_ng\_ \_n th\_  
s\_q\_\_nc\_ \_f th\_ DN\_ th\_t c\_n \_cc\_r wh\_n \_ c\_ll  
d\_v\_d\_s. Th\_s ch\_ng\_ c\_\_s\_s \_ sl\_gh\_t d\_ff\_r\_nc\_ \_n  
th\_ DN\_ r\_pl\_c\_t\_\_n pr\_c\_ss. \_ s\_ngl\_, t\_ny ch\_ng\_  
c\_n cr\_\_t\_ d\_ff\_r\_nc\_s \_n h\_\_gh\_t, \_nt\_ll\_g\_nc\_, \_y\_  
c\_l\_\_r \_nd \_v\_n \_n s\_sc\_pt\_b\_l\_ty t\_ d\_s\_\_s\_.

Th\_ st\_dy sh\_ws th\_t \_d\_nt\_c\_l tw\_ns d\_ n\_t sh\_r\_  
t\_t\_lly \_d\_nt\_c\_l DN\_. \_n \_b\_\_t 15 p\_r c\_nt \_f  
\_d\_nt\_c\_l tw\_n p\_\_rs, \_n\_ tw\_n c\_rr\_\_d \_ "s\_bst\_nt\_\_l"  
n\_mb\_r \_f m\_t\_t\_\_ns th\_t th\_ \_th\_r d\_d n\_t sh\_r\_.  
Th\_ sc\_\_nt\_sts s\_y th\_s d\_ff\_r\_nc\_ \_s \_mp\_r\_t\_n\_t \_s \_t  
sh\_ds l\_gh\_t \_n th\_ "n\_t\_r\_ v\_rs\_s n\_r\_t\_r\_" d\_b\_t\_.  
Th\_s \_s wh\_th\_r h\_m\_n b\_h\_v\_\_r \_s d\_t\_rm\_n\_d by  
th\_ \_nv\_r\_nm\_nt, s\_c\_\_l\_z\_t\_\_n \_nd \_pbr\_ng\_ng, \_r by  
\_ p\_rs\_n's g\_n\_s. Th\_ r\_s\_\_rch sh\_ws th\_t th\_s t\_ny  
d\_ff\_r\_nc\_, \_nd n\_t \_nv\_r\_nm\_nt\_l f\_ct\_rs, c\_\_ld b\_  
th\_ r\_\_s\_n why \_n\_ tw\_n d\_v\_l\_ps d\_ff\_r\_nt  
b\_h\_v\_\_r\_l ch\_r\_ct\_r\_st\_cs \_r m\_d\_c\_l c\_nd\_t\_\_ns.  
Pr\_f\_ss\_r K\_r\_ St\_f\_nss\_n s\_\_d \_ g\_n\_t\_c m\_t\_t\_\_n  
m\_y b\_ th\_ s\_\_rc\_ \_f \_ g\_v\_n d\_s\_\_s\_ \_r tr\_\_t.

# PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

a new study shows that while identical twins can look perfectly alike it is not a perfect similarity they are not clones of each other scientists at the university of iceland analyzed the dna from 387 pairs of identical twins babies born from a single fertilized egg the scientists compared the dna with that of the twins parents and children the geneticists looked for mutations in the early stages of development a mutation is a tiny change in the sequence of the dna that can occur when a cell divides this change causes a slight difference in the dna replication process a single tiny change can create differences in height intelligence eye colour and even in susceptibility to disease

the study shows that identical twins do not share totally identical dna in about 15 per cent of identical twin pairs one twin carried a substantial number of mutations that the other did not share the scientists say this difference is important as it sheds light on the nature versus nurture debate this is whether human behavior is determined by the environment socialization and upbringing or by a persons genes the research shows that this tiny difference and not environmental factors could be the reason why one twin develops different behavioural characteristics or medical conditions professor kari stefansson said a genetic mutation may be the source of a given disease or trait

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

A new study shows that while identical twins can look perfectly alike, it is not a perfect similarity. They are not clones of each other. Scientists at the University of Iceland analyzed the DNA from 387 pairs of identical twins - babies born from a single fertilized egg. The scientists compared the DNA with that of the twins' parents and children. The geneticists looked for mutations in the early stages of development. A mutation is a tiny change in the sequence of the DNA that can occur when a cell divides. This change can be a single letter difference in the DNA replication process. A single, tiny change can create differences in height, intelligence, eye colour and even in susceptibility to disease. The study shows that identical twins do not share totally identical DNA. In about 15 percent of identical twin pairs, one twin carried a "substantial" number of mutations that the other did not share. The scientists say this difference is important as it sheds light on the "nature versus nurture" debate. This is whether human behaviour is determined by the environment, socialization and upbringing, or by a person's genes. The research shows that this tiny difference, and not environmental factors, could be the reason why one twin develops different behavioural characteristics or medical conditions. Professor Kari Stefansson said a genetic mutation may be the source of a given disease or trait.





# ACADEMIC WRITING

From <https://breakingnewsenglish.com/2101/210110-identical-twins.html>

It is important we all understand the nature versus nurture debate. Discuss.

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# 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. IDENTICAL TWINS:** Make a poster about identical twins. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. DNA:** Write a magazine article about governments spending a lot more money of researching DNA. 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 identical twins. Ask him/her three questions about them. Give him/her three of your ideas the advantages and disadvantages of being an identical twin. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

# ANSWERS

## VOCABULARY (p.4)

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

## TRUE / FALSE (p.5)

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

## SYNONYM MATCH (p.5)

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

## COMPREHENSION QUESTIONS (p.9)

- Each other
- 774
- Parents and children
- Mutations
- Disease
- Totally identical DNA
- The nature vs. nurture debate
- Upbringing
- A tiny difference in DNA
- A genetic mutation

## WORDS IN THE RIGHT ORDER (p.20)

- They are not clones of each other.
- Twin babies born from a single fertilized egg.
- Geneticists looked for mutations in the early stages.
- Tiny changes in the sequence of the DNA.
- A single change can create differences in height.
- Identical twins do not share totally identical DNA.
- One twin carried a substantial number of mutations.
- Shed light on the "nature versus nurture" debate.
- The reason why one twin develops different characteristics.
- A genetic mutation may be the source.

## MULTIPLE CHOICE - QUIZ (p.10)

1. b    2. b    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 ;-)