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Level 3

Researchers find Einstein's space waves

14th February, 2016

<http://www.breakingnewsenglish.com/1602/160214-gravitational-waves.html>

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

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THE ARTICLE

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Scientists in the USA have seen something amazing in space for the very first time. They saw gravitational waves. These are waves that form in space and travel outwards. The waves are similar to how ripples in water move outwards after you throw a stone in a lake. The gravitational waves in space start when two giant space objects hit each other. Albert Einstein first spoke about waves in space in 1916 when he made his General Theory of Relativity. One hundred years later, the researchers have proved that Einstein's theory was right. The researchers used powerful technology to see the gravitational waves. Einstein did not have this technology. He used his genius to predict that the waves existed.

Scientists say the discovery of the gravitational waves is one of the most important discoveries ever. Dr Lawrence Krauss, from Arizona State University, said the discovery was as great as the invention of the telescope. He said it would let scientists see many new things in space. It would also answer many questions about our universe. Dr Krauss said: "It has opened a new window on the universe, just like the telescope." He added that: "Using gravitational waves to explore the universe will allow us to see things we could have never seen before....It will also allow us to explore objects in the universe we've never seen before." He said it was beautiful that the discovery happened 100 years after Einstein's prediction.

Sources: <http://canadajournal.net/science/researchers-prove-albert-einsteins-theory-of-relativity-42835-2016/>
<http://gadgets.ndtv.com/science/news/gravitational-waves-detection-proves-albert-einsteins-century-old-theory-801468>
<https://thespacereporter.com/2016/02/gravitational-waves-detected-century-einstein-proposed/>

WARM-UPS

1. SPACE: Students walk around the class and talk to other students about space. 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 / amazing / waves / space / objects / Einstein / technology / genius / discovery / invention / telescope / universe / explore / beautiful / prediction

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

3. PREDICTIONS: What are your predictions about these things? Complete this table with your partner(s). Change partners often and share what you wrote.

	50 years from now	500 years from now
Living in space		
Doctors		
World peace		
Internet		
English		
Your country		

4. DISCOVERIES: Students A **strongly** believe discoveries in space are very important; Students B **strongly** believe they are not. Change partners again and talk about your conversations.

5. AMAZING THINGS: Rank these with your partner. Put the best at the top. Change partners often and share your rankings.

- volcanoes
- the Internet
- flowers
- space rockets
- babies
- dolphins
- the human brain
- snow flakes

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

BEFORE READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

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

- | | |
|---|-------|
| a. Scientists found gravitational waves for the second time. | T / F |
| b. Gravitational waves start from the outside and travel inwards. | T / F |
| c. Albert Einstein spoke about gravitational waves in 1916. | T / F |
| d. Einstein used powerful technology to measure gravitational waves. | T / F |
| e. A scientist said discovering the telescope was more important. | T / F |
| f. The discovery of gravitational waves will answer many questions. | T / F |
| g. The discovery means scientists will see things never seen before. | T / F |
| h. The discovery of the waves came 100 years after Einstein's prediction. | T / F |

2. SYNONYM MATCH: Match the following synonyms from the article.

- | | |
|--------------|----------------|
| 1. amazing | a. investigate |
| 2. form | b. showed |
| 3. hit | c. finding |
| 4. proved | d. occurred |
| 5. genius | e. develop |
| 6. discovery | f. things |
| 7. let | g. astonishing |
| 8. explore | h. brilliance |
| 9. objects | i. allow |
| 10. happened | j. strike |

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

- | | |
|--|----------------------------|
| 1. waves that form in space | a. theory was right |
| 2. two giant space objects | b. Einstein's prediction |
| 3. researchers have proved that Einstein's | c. the waves existed |
| 4. researchers used powerful | d. to explore the universe |
| 5. He used his genius to predict that | e. hit each other |
| 6. one of the most important | f. of the telescope |
| 7. the invention | g. technology |
| 8. Using gravitational waves | h. never seen before |
| 9. objects in the universe we've | i. and travel outwards |
| 10. 100 years after | j. discoveries ever |

GAP FILL

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Scientists in the USA have seen something (1) _____ in space for the very first time. They saw gravitational waves. These are waves that (2) _____ in space and travel outwards. The waves are similar to how ripples in water move (3) _____ after you throw a stone in a lake. The gravitational waves in space start when two giant space (4) _____ hit each other. Albert Einstein first spoke about waves in space in 1916 when he (5) _____ his General Theory of Relativity. One hundred years later, the researchers have (6) _____ that Einstein's theory was right. The researchers used (7) _____ technology to see the gravitational waves. Einstein did not have this technology. He used his (8) _____ to predict that the waves existed.

objects
proved
form
genius
outwards
amazing
powerful
made

Scientists say the (9) _____ of the gravitational waves is one of the most important discoveries (10) _____. Dr Lawrence Krauss, from Arizona State University, said the discovery was as great as the (11) _____ of the telescope. He said it would let scientists see many new things in space. It would also (12) _____ many questions about our universe. Dr Krauss said: "It has opened a new window on the (13) _____, just like the telescope." He added that: "Using gravitational waves to (14) _____ the universe will allow us to see things we could have never seen before....It will also allow us to explore (15) _____ in the universe we've never seen before." He said it was beautiful that the discovery happened 100 years after Einstein's (16) _____.

invention
ever
universe
discovery
objects
answer
prediction
explore

LISTENING – Guess the answers. Listen to check.

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

- 1) Scientists in the USA have seen something amazing in space for the _____
 - a. very fast time
 - b. very first time
 - c. very firstly time
 - d. very fourth time
- 2) These are waves that form in space and _____
 - a. travels outwards
 - b. travel outward
 - c. travel outwards
 - d. travels outward
- 3) The waves are similar to how ripples in water move outwards after you throw _____
 - a. a stoning in a lake
 - b. a stoning a lake
 - c. a stone in a lake
 - d. a stoned in a lake
- 4) One hundred years later, the researchers have proved that Einstein's _____
 - a. thesis was right
 - b. theorise was right
 - c. theories was right
 - d. theory was right
- 5) He used his genius to predict that _____
 - a. the waves exist it
 - b. the waves existing
 - c. the waves existence
 - d. the waves existed
- 6) the discovery of the gravitational waves is one of the most _____
 - a. important discoveries ever
 - b. important discoveries even
 - c. important discoveries never
 - d. important discoveries every
- 7) the discovery was as great as the invention _____
 - a. for the telescope
 - b. of the telescope
 - c. by the telescope
 - d. at the telescope
- 8) He said it would let scientists see many new _____
 - a. thing in space
 - b. things in space
 - c. things in spaces
 - d. thing in spaces
- 9) It will also allow us to explore objects _____
 - a. on the universe
 - b. by the universe
 - c. in the universe
 - d. inner universe
- 10) He said it was beautiful that the discovery happened 100 years _____
 - a. after Einstein's prediction
 - b. after Einstein predictions
 - c. after Einstein's predictions
 - d. after Einstein predictions

LISTENING – Listen and fill in the gaps

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Scientists in the USA have seen something amazing (1) _____ very first time. They saw gravitational waves. These are waves that form in space and (2) _____. The waves are similar to how ripples in water move outwards after you throw a stone in a lake. The gravitational waves in space start when two (3) _____ hit each other. Albert Einstein first spoke about waves in space in 1916 when he made his General Theory of Relativity. One (4) _____, the researchers have proved that Einstein's theory was right. The researchers used (5) _____ to see the gravitational waves. Einstein did not have this technology. He used his (6) _____ that the waves existed.

Scientists say the discovery of the gravitational waves (7) _____ important discoveries ever. Dr Lawrence Krauss, from Arizona State University, said the discovery (8) _____ the invention of the telescope. He said it would let scientists see many new things in space. It would also answer many questions (9) _____. Dr Krauss said: "It has opened a new window on the universe, just like the telescope." He added that: "Using gravitational waves to explore the universe (10) _____ see things we could have never seen before....It will also allow us to explore objects in the universe we've never seen before." (11) _____ beautiful that the discovery (12) _____ after Einstein's prediction.

COMPREHENSION QUESTIONS

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

1. Where are the scientists from?

2. In what direction do gravitational waves travel from the centre?

3. What things must hit each other in space for the waves to form?

4. When did Albert Einstein first talk about the waves?

5. What did Einstein use to predict the waves existed?

6. In which US state does Dr Lawrence Krauss work?

7. What invention did Dr Krauss say the discovery of the waves was like?

8. What would the discovery of the waves answer?

9. What things in the universe will the discovery allow us to see?

10. How long after Einstein's prediction did scientists discover the waves?

MULTIPLE CHOICE - QUIZ

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

1. Where are the scientists from?
 - a) India
 - b) China
 - c) space
 - d) the USA
2. In what direction do gravitational waves travel from the centre?
 - a) down
 - b) outwards
 - c) up
 - d) inwards
3. What things must hit each other in space for the waves to form?
 - a) space dust
 - b) gravity
 - c) two giant space objects
 - d) planets
4. When did Albert Einstein first talk about the waves?
 - a) 1916
 - b) 1910
 - c) 1961
 - d) 1932
5. What did Einstein use to predict the waves existed?
 - a) powerful technology
 - b) a science book
 - c) his genius
 - d) the stars
6. In which US state does Dr Lawrence Krauss work?
 - a) Alaska
 - b) Arizona
 - c) Alabama
 - d) Arkansas
7. What invention did Dr Krauss say the discovery of the waves was like?
 - a) the telegram
 - b) the television
 - c) the telegraph
 - d) the telescope
8. What would the discovery of the waves answer?
 - a) questions about the universe
 - b) the meaning of life
 - c) how black holes are formed
 - d) when the Earth began
9. What things in the universe will the discovery allow us to see?
 - a) time
 - b) aliens
 - c) things we've never seen before
 - d) black holes
10. How long after Einstein's prediction did scientists discover the waves?
 - a) 110 years
 - b) 100 years
 - c) 105 years
 - d) 99 years

ROLE PLAY

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Role A – Space travel

You think space travel is the most amazing thing. Tell the others three reasons why. Tell them why their things aren't as amazing. Also, tell the others which is the least amazing of these (and why): the Internet, babies or the human brain.

Role B – The Internet

You think the Internet is the most amazing thing. Tell the others three reasons why. Tell them why their things aren't as amazing. Also, tell the others which is the least amazing of these (and why): space travel, babies or the human brain.

Role C – Babies

You think babies are the most amazing things. Tell the others three reasons why. Tell them why their things aren't as amazing. Also, tell the others which is the least amazing of these (and why): the Internet, space travel or the human brain.

Role D – The human brain

You think the human brain is the most amazing thing. Tell the others three reasons why. Tell them why their things aren't as amazing. Also, tell the others which is the least amazing of these (and why): the Internet, babies or space travel.

AFTER READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

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

space	wave
--------------	-------------

- 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">• first• water• hit• made• right• genius	<ul style="list-style-type: none">• most• great• let• answer• before• beautiful
---	--

SPACE SURVEY

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Write five GOOD questions about space 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.

SPACE DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

- 1) What did you think when you read the headline?
- 2) What springs to mind when you hear the word 'space'?
- 3) How interested are you in space?
- 4) What do you think about what you read?
- 5) What have you read or seen about gravitational waves?
- 6) What do you know about Einstein?
- 7) What do you know about Einstein's General Theory of Relativity?
- 8) What do you want to know about space?
- 9) Do you think there is life on other planets?
- 10) Would you like to travel into space?

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SPACE DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

- 11) Did you like reading this article? Why/not?
- 12) What is the most important discovery ever?
- 13) What is the most important invention ever?
- 14) What questions are there about our universe?
- 15) Will everything in science fiction movies come true?
- 16) Would you be a good scientist?
- 17) Do you think we will find something in space we won't like?
- 18) What did you like about science at school?
- 19) What will space research be like in 100 years from now?
- 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 <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Scientists in the USA have seen something (1) _____ in space for the very first time. They saw gravitational waves. These are waves that (2) _____ in space and travel outwards. The waves are similar to how (3) _____ in water move outwards after you throw a stone in a lake. The gravitational waves in space start when two giant space (4) _____ hit each other. Albert Einstein first spoke about waves in space in 1916 when he made his General Theory of Relativity. One hundred years later, the researchers have (5) _____ that Einstein's theory was right. The researchers used powerful technology to see the gravitational waves. Einstein did not have this technology. He used his genius (6) _____ predict that the waves existed.

Scientists say the discovery of the gravitational waves is one of the most important discoveries (7) _____. Dr Lawrence Krauss, from Arizona State University, said the discovery was as great (8) _____ the invention of the telescope. He said it would let scientists see many new things in space. It would also answer many questions about our universe. Dr Krauss said: "It has opened a new window (9) _____ the universe, just like the telescope." He added that: "Using gravitational waves to explore the universe will allow (10) _____ to see things we could have never seen before....It will also allow us to (11) _____ objects in the universe we've never seen before." He said it was beautiful that the discovery happened 100 years after Einstein's (12) _____.

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

- | | | | | |
|-----|----------------|-----------------|---------------|----------------|
| 1. | (a) amazing | (b) amazes | (c) amazed | (d) amazement |
| 2. | (a) firm | (b) frame | (c) form | (d) farm |
| 3. | (a) containers | (b) cushions | (c) ripples | (d) pollen |
| 4. | (a) rejects | (b) subjects | (c) injects | (d) objects |
| 5. | (a) proved | (b) show | (c) decision | (d) amazed |
| 6. | (a) for | (b) to | (c) by | (d) at |
| 7. | (a) never | (b) every | (c) even | (d) ever |
| 8. | (a) was | (b) as | (c) is | (d) has |
| 9. | (a) down | (b) up | (c) on | (d) at |
| 10. | (a) our | (b) we | (c) they | (d) us |
| 11. | (a) explored | (b) exploration | (c) exploring | (d) explore |
| 12. | (a) predicts | (b) prediction | (c) predicted | (d) predictive |

SPELLING

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Paragraph 1

1. something mazgnia in space
2. travel awuodrts
3. when two giant space bseotcj hit each other
4. Einstein's teoyrh was right
5. The researchers used powerful cteoygholn
6. He used his snugie

Paragraph 2

7. the esiroyvcd of the gravitational waves
8. as great as the viienontn
9. answer many questions about our rsueiven
10. it would let icstssetin see many new things
11. allow us to pxeelor
12. 100 years after Einstein's ntpeidrcoi

PUT THE TEXT BACK TOGETHER

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Number these lines in the correct order.

- () 1916 when he made his General Theory of Relativity. One hundred years later, the researchers have
- () ever. Dr Lawrence Krauss, from Arizona State University, said the discovery was as great as the invention
- () questions about our universe. Dr Krauss said: "It has opened a new window on the universe, just like the
- () before." He said it was beautiful that the discovery happened 100 years after Einstein's prediction.
- () we could have never seen before....It will also allow us to explore objects in the universe we've never seen
- () to how ripples in water move outwards after you throw a stone in a lake. The gravitational waves in space start
- () see the gravitational waves. Einstein did not have this technology. He used his genius to predict that the waves existed.
- () proved that Einstein's theory was right. The researchers used powerful technology to
- () of the telescope. He said it would let scientists see many new things in space. It would also answer many
- () time. They saw gravitational waves. These are waves that form in space and travel outwards. The waves are similar
- () telescope." He added that: "Using gravitational waves to explore the universe will allow us to see things
- (**1**) Scientists in the USA have seen something amazing in space for the very first
- () when two giant space objects hit each other. Albert Einstein first spoke about waves in space in
- () Scientists say the discovery of the gravitational waves is one of the most important discoveries

PUT THE WORDS IN THE RIGHT ORDER

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

1. have Scientists seen in something the amazing USA .

2. in space and travel outwards These are waves that form .

3. in water move The waves are similar to how ripples .

4. Einstein's Researchers theory have was proved right that .

5. used his genius to predict that the waves existed He .

6. the as great as was discovery The telescope the of invention .

7. window universe has new the It a on opened .

8. us Allow before seen never have could we things see to .

9. universe the in objects explore to us allow also will It .

10. it that happened said beautiful discovery He was the .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Scientists in the USA have seen something *amazed / amazing* in space for the very first time. They saw gravitational waves. These are waves that *frame / form* in space and *travel / traveling* outwards. The waves are *similar / similarly* to how ripples in water move outwards after you *threw / throw* a stone in a lake. The gravitational waves in space start when two giant space *subjects / objects* hit each other. Albert Einstein first *spoken / spoke* about waves in space in 1916 when he made his General Theory of Relativity. One hundred years *after / later*, the researchers have proved that Einstein's theory was right. The researchers *used / usage* powerful technology to see the gravitational waves. Einstein did not have this technology. He used his *genius / genie* to predict that the waves existed.

Scientists say the *discovered / discovery* of the gravitational waves is one of the most important discoveries *never / ever*. Dr Lawrence Krauss, from Arizona State University, said the discovery was as great *as / was* the invention of the telescope. He said it would let scientists see many new things *in / on* space. It would *as well / also* answer many questions about our universe. Dr Krauss said: "It has opened a new window on the universe, just *like / same* the telescope." He added that: "Using gravitational waves *to / for* explore the universe will *allow / allowing* us to see things we could have never seen before....It will also allow *they / us* to explore objects in the universe we've never seen before." He said it was *beauty / beautiful* that the discovery happened 100 years after Einstein's prediction.

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 <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Sc__nt__sts__n__th__ _S__ h__v__ s__n__s__m__th__ng__ _m__z__ng__
_n__ sp__c__ f__r__ th__ v__ry__ f__rst__ t__m__. Th__y__ s__w__
gr__v__t__t__n__l__ w__v__s__. Th__s__ _r__ w__v__s__ th__t__ f__rm__ _n__
sp__c__ _nd__ tr__v__l__ __tw__rds__. Th__ w__v__s__ _r__ s__m__l__r__ t__
h__w__r__ppl__s__ _n__w__t__r__m__v__ __tw__rds__ ft__r__y__ thr__w__
st__n__ _n__ l__k__. Th__ gr__v__t__t__n__l__ w__v__s__ _n__ sp__c__
st__rt__ wh__n__ tw__ g__nt__ sp__c__ _bj__cts__ h__t__ __ch__ th__r__.
_lb__rt__ __nst__n__ f__rst__ sp__k__ _b__t__ w__v__s__ _n__ sp__c__ _n__
1916 wh__n__ h__m__d__ h__s__ G__n__r__l__ Th__ry__ f__R__l__t__v__ty__.
_n__ h__ndr__d__ y__rs__ l__t__r__, th__ r__s__rch__rs__ h__v__ pr__v__d__
th__t__ __nst__n__'s__ th__ry__ w__s__ r__ght__. Th__ r__s__rch__rs__
_s__d__ p__w__rf__l__ t__chn__l__gy__ t__s__ th__ gr__v__t__t__n__l__
w__v__s__. __nst__n__ d__d__ n__t__ h__v__ th__s__ t__chn__l__gy__. H__
_s__d__ h__s__ g__n__s__t__ pr__d__ct__ th__t__ th__ w__v__s__ _x__st__d__.

Sc__nt__sts__ s__y__ th__ d__sc__v__ry__ _f__ th__ gr__v__t__t__n__l__
w__v__s__ _s__n__ _f__ th__ m__st__mp__rt__nt__ d__sc__v__r__s__ _v__r__.
Dr L__wr__nc__ Kr__ss__, fr__m__ _r__z__n__ St__t__ _n__v__rs__ty__,
s__d__ th__ d__sc__v__ry__ w__s__ _s__gr__t__ _s__ th__ _nv__nt__n__ _f__
th__ t__l__sc__p__. H__ _s__d__ _t__w__ld__ l__t__ sc__nt__sts__ s__
m__ny__ n__w__ th__ngs__ _n__ sp__c__. _t__w__ld__ _ls__ _nsw__r__ m__ny__
q__st__ns__ _b__t__ _r__n__v__rs__. Dr Kr__ss__ s__d__: "t__h__s__
_p__n__d__ _n__w__ w__nd__w__ _n__ th__ _n__v__rs__, j__st__ l__k__ th__
t__l__sc__p__." H__ _dd__d__ th__t__: "s__ng__ gr__v__t__t__n__l__
w__v__s__ t__ _xpl__r__ th__ _n__v__rs__ w__ll__ _ll__w__s__ t__s__
th__ngs__ w__c__ld__ h__v__ _n__v__r__s__ _n__b__f__r__... t__w__ll__ _ls__
_ll__w__s__ t__ _xpl__r__ _bj__cts__ _n__ th__ _n__v__rs__ w__'v__
_n__v__r__s__ _n__b__f__r__." H__ _s__d__ _t__w__s__ _b__t__ _f__l__ th__t__ th__
d__sc__v__ry__ h__pp__n__d__ 100__ y__rs__ _ft__r__ __nst__n__'s__
pr__d__ct__n__.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

scientists in the usa have seen something amazing in space for the very first time they saw gravitational waves these are waves that form in space and travel outwards the waves are similar to how ripples in water move outwards after you throw a stone in a lake the gravitational waves in space start when two giant space objects hit each other albert einstein first spoke about waves in space in 1916 when he made his general theory of relativity one hundred years later the researchers have proved that einstein's theory was right the researchers used powerful technology to see the gravitational waves einstein did not have this technology he used his genius to predict that the waves existed

scientists say the discovery of the gravitational waves is one of the most important discoveries ever dr lawrence krauss from arizona state university said the discovery was as great as the invention of the telescope he said it would let scientists see many new things in space it would also answer many questions about our universe dr krauss said "it has opened a new window on the universe just like the telescope" he added that "using gravitational waves to explore the universe will allow us to see things we could have never seen before...it will also allow us to explore objects in the universe we've never seen before" he said it was beautiful that the discovery happened 100 years after einstein's prediction

PUT A SLASH (/) WHERE THE SPACES ARE

From <http://www.BreakingNewsEnglish.com/1602/160214-gravitational-waves.html>

Scientists in the USA have seen something amazing in space for the very first time. They saw gravitational waves. These are waves that form in space and travel outwards. The waves are similar to how ripples in water move outwards after you throw a stone in a lake. The gravitational waves in space start when two giant space objects hit each other. Albert Einstein first spoke about waves in space in 1916 when he made his General Theory of Relativity. One hundred years later, the researchers have proved that Einstein's theory was right. The researchers used powerful technology to see the gravitational waves. Einstein did not have this technology. He used his genius to predict that the waves existed. Scientists say the discovery of the gravitational waves is one of the most important discoveries ever. Dr Lawrence Krauss, from Arizona State University, said the discovery was as great as the invention of the telescope. He said it would let scientists see many new things in space. It would also answer many questions about our universe. Dr Krauss said: "It has opened a new window on the universe, just like the telescope." He added that: "Using gravitational waves to explore the universe will allow us to see things we could have never seen before... It will also allow us to explore objects in the universe we've never seen before." He said it was beautiful that the discovery happened 100 years after Einstein's prediction.

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 Einstein's Theory of Relativity. Share what you discover with your partner(s) in the next lesson.

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

4. LIVING IN SPACE: Write a magazine article about living in space. Include imaginary interviews with people who are for and against it.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on space. Ask him/her three questions about the universe. Give him/her three of your thoughts on space travel. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

TRUE / FALSE (p.4)

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

SYNONYM MATCH (p.4)

- | | |
|--------------|----------------|
| 1. amazing | a. investigate |
| 2. form | b. showed |
| 3. hit | c. finding |
| 4. proved | d. occurred |
| 5. genius | e. develop |
| 6. discovery | f. things |
| 7. let | g. astonishing |
| 8. explore | h. brilliance |
| 9. objects | i. allow |
| 10. happened | j. strike |

COMPREHENSION QUESTIONS (p.8)

1. The USA
2. Outwards
3. Two giant space objects
4. 1916
5. His genius
6. Arizona
7. The telescope
8. Questions about the universe
9. Things we've never seen before
10. 100 years

MULTIPLE CHOICE - QUIZ (p.9)

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 ;-)