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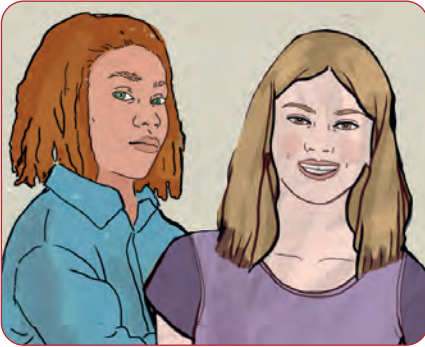


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About the Series

Meet the Time Detectives

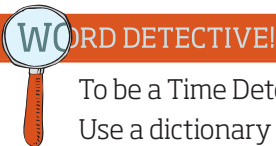


Liam and Rose are the **Time Detectives**. But are they really detectives? No, they aren't trying to solve crimes. But every adventure they have is a mystery, a mystery they must solve. Like detectives, Liam and Rose look for clues. When they travel through time, they face the same questions:

- ★ Where are we?
- ★ When are we?
- ★ What is happening?
- ★ Who are the people we meet?
- ★ Who can we trust?
- ★ Are we in danger?

Liam and Rose are two twenty-first century friends. But when they travel in time, they lose the technology they use every day. So they have no phones, no internet, no messaging or social media, no GPS. They are on their own, and they only have their own skills and ideas.

Some people say that history repeats itself. But really, it's *people* that repeat themselves. So when Liam and Rose travel into the past or into the future, they discover people and situations that reflect their own world and their own time. And they face new and unexpected challenges.



To be a Time Detective you need to know these words.
Use a dictionary to look them up.

detective solve crime unexpected clue mystery

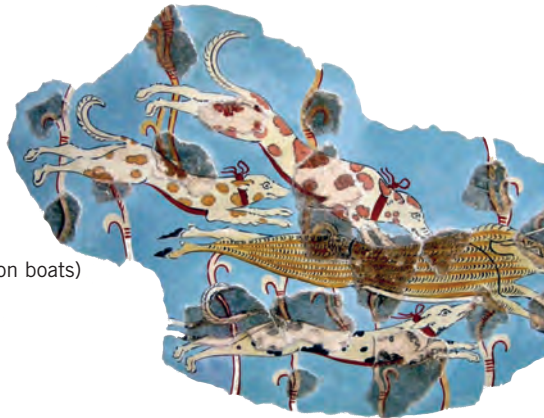


THE MYSTERIOUS MINOANS

LOST IN TIME

The Minoans were in some ways the earliest civilization• in Europe. They lived on the island of Crete in the Aegean Sea. They were rich and powerful for over a thousand years. But this great civilization was lost in time. They existed only in the myths• and stories of ancient• Greece. A British archaeologist• called Sir Arthur Evans believed that the stories about the Minoans were true. In 1900, he went to Crete and started digging. Over the next five years he found the ruins of the city of Knossos and its beautiful palace. Evans named the people who lived in Knossos, the Minoans, after the legendary• King Minos, who was the son of the god Zeus and Europa, a Phoenician• princess. In Greek legend, King Minos had a maze where the Minotaur lived. The Minotaur was a terrible creature that was half man and half bull.

- **ancient:** from a very long time ago
- **archaeologist:** person who studies objects from the past
- **civilization:** large group of people living together in an organised way
- **defeated:** won against
- **legendary:** (here) from an old story
- **myths:** traditional stories
- **navy:** people that fight for their country at sea (on boats)
- **Phoenician:** person from ancient country of Phoenicia (modern-day Lebanon/Syria)
- **sculptures:** 3D works of art, often made of stone
- **sophisticated:** advanced; developed
- **traders:** people who buy and sell things



Investigate



The Minoans were a Bronze Age civilization. What was the Bronze Age? And why were tin and copper important?

Write your answers in your Time Detective Notebook.



MEET THE MINOANS

The Minoans were adventurous, sophisticated[•] and artistic, and their civilization lasted from about 2500 to 1400 BCE – over a thousand years! The Minoans were sea travellers and traders[•]. They sailed all over the Mediterranean to the lands that are now Greece, Turkey, Syria, Egypt, Spain and Iran. They traded metals such as copper, tin, gold and silver, as well as pottery, and agricultural products like grain, oil and wine. Farming was important, but the Minoans were also city people. Minoan cities were very sophisticated: their buildings were two to three floors high and they had stone roads. They also had pipes for carrying water, a long time before the ancient Romans.

WELCOME TO KNOSSOS

Knossos, the Minoan capital, was a wonder of the world. It had no city walls and it was safe from enemies because of its powerful navy[•]. The palace that Sir Arthur Evans discovered was huge. It had 1,500 rooms with beautiful paintings, sculptures[•] and pottery, as well as the world's earliest flushing toilet!

THE FALL OF THE MINOANS

Why did the Minoan civilization come to an end? The Mycenaeans on mainland Greece were their enemies; they defeated[•] the Minoans about 1400 BCE. But the Minoans had enemies in nature, too. Perhaps an earthquake, a volcano or a tsunami swept them away, hiding them in darkness, until Sir Arthur Evans brought them back into the light of day.

Earthquakes, volcanoes, and tsunamis are all types of natural disasters. What are they called in your language?

Investigate



Look at examples of the paintings and pottery of Knossos. What can they tell you about the people's lives?

Write your answers in your Time Detective Notebook.



TIME TRAVEL

TIME TRAVELLERS

Liam and Rose travel through time, from adventure to adventure. But could anything like this happen in real life? Well, in one way, we are all time travellers. In our lives we travel through time from day to day and year to year. However, we're all going in the same direction (forwards) and at the same speed. Is it possible to change this? Could we ever jump through time? Let's look at the science!

TIME TRAVEL FOR BEGINNERS

Things were simpler in the past. The brilliant scientist Isaac Newton (1643-1727) believed that we lived in three-dimensional (3-D) space. Our bodies, like every other object in the universe, had height, width and depth. For Newton, time was unchanging and separate from space. And everything continued like this until Albert Einstein published his *Special Theory of Relativity* in 1905 and 1915.

In Einstein's theory, space and time weren't fixed and unchanging. Measurements of space and time depended on the speed of the person doing the measuring. Also, space and time weren't separate. For Einstein, the fourth dimension was space-time. What does this mean for time travel? Well, his theory says that the faster you travel, the slower you experience time. And because time and space are similar, maybe we can travel through both!

THE TWIN PARADOX

Imagine a pair of twins in the year 2525. One twin flies to Alpha Centauri on a super-fast spaceship, close to the speed of light. Her sister stays on Earth. When the astronaut returns, she is a lot younger than her twin. Strange but true!

Investigate

Find out about another famous time-travel problem, The Grandfather Paradox.

Write your answers in your Time Detective Notebook.

WEIRD SCIENCE

According to Einstein, a huge object can change space and time in the same way that a ball can change the shape of a rubber sheet. So, travelling near a really heavy object (like a black hole) can change our experience of time. That's the idea behind the movie *Interstellar*. Another scientific idea is the 'wormhole'. If wormholes exist (it's a big 'if!'), they could join one location in space-time with another. We could enter a wormhole and come out in a completely different place and time. And that's time travel!

FROM SCIENCE TO SCIENCE FICTION

H. G. Wells's classic science fiction novel *The Time Machine* (1895) is considered to be the first time-travel novel. His hero travels *forward* in time to the year 802,701 CE. However, Wells wasn't the first author to write about time travel. That was Enrique Gaspar, and he wrote *El Anacronópete* eight years earlier. His hero travels back in time, finally crashing at the moment of creation. Unfortunately, Gaspar's novel wasn't a success. Ray Bradbury's *The Sound of Thunder* (1952) is an excellent short story on time travel. A party of time-travelling tourists visit the age of the dinosaurs. There are strict rules about what they can and can't do. Unfortunately, one tourist breaks the rules and steps on a butterfly. When they return to the present, the world is very different...

- **Alpha Centauri:** nearest group of stars to us
- **black hole:** part of space with very strong gravity
- **crashing:** (of vehicles) hitting something violently
- **creation:** (in the Bible) when the world was created by God
- **paradox:** something that seems strange or impossible because it has two opposite qualities
- **party:** (here) group; number of people
- **rubber:** flexible material, e.g. rubber band, rubber tyres
- **separate:** (here) different; not connected
- **theory:** idea that explains how something works

Investigate

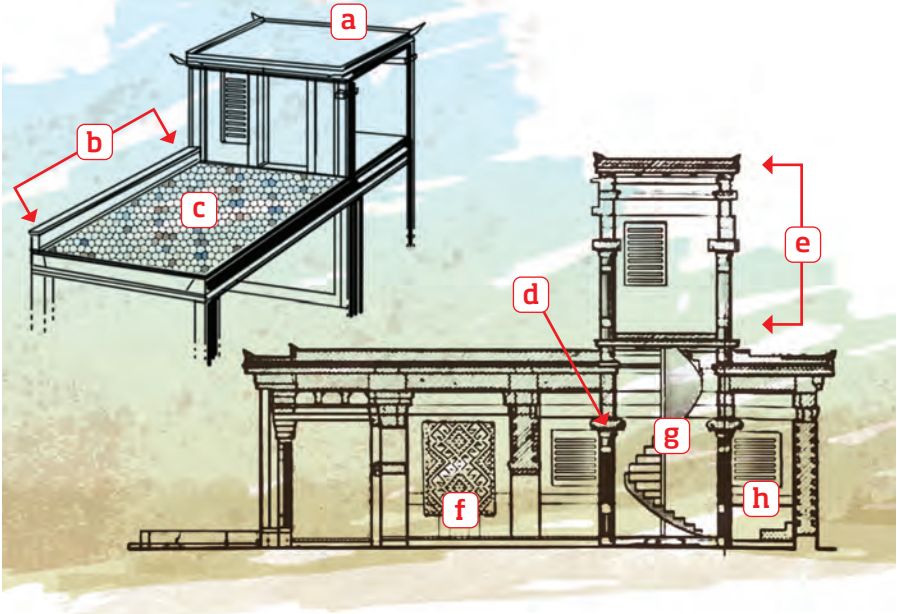
Find out about time travel in films and TV series. What are the best ones? Why? Which one is your favourite?

Write your answers in your Time Detective Notebook.

Before Reading

1 Look at the pictures of a villa. Match the words with the things.

- | | | | |
|----------------------------------|-----------------------------------|-----------------------------------|---|
| <input type="checkbox"/> terrace | <input type="checkbox"/> column | <input type="checkbox"/> shutters | <input type="checkbox"/> spiral staircase |
| <input type="checkbox"/> roof | <input type="checkbox"/> tapestry | <input type="checkbox"/> tower | <input type="checkbox"/> mosaic floor |



Living words

There are lots of **idioms** in English about **the house** and **the home**. When people get on *like a house on fire*, they like each other very much. A *home truth* is something true about you that you don't want to hear. *Home is where the heart is* means that your real home isn't a building, it's where the people you love are. And if you *build castles in the air*, you create hopes or plans that won't ever happen. Are there similar expressions in your language?




2 Listen to an extract from near the beginning of *Out of the Maze*. Complete the extract with the words in the box.

clues touch anywhere where nothing like rush maybe

One moment he was falling, the next he was lying on his back on dry hard ground. Liam didn't **a** to sit up. With his eyes shut, he checked first that **b** was broken. Then he opened his eyes. Where was he this time? There weren't many **c** to help him. The warm sun shone like a golden ball in a narrow strip of sky above him. On either side were high white walls. It was **d** being in a corridor, but with no roof, and open to the light and air. He got up and ran his hands along a wall. It was cold to the **e** Marble, he thought, and **f** three or four metres high. The corridor ran in both directions **g** it seemed to meet other corridors. He couldn't see Rose **h** But the next moment, he heard her. 'Hey, Liam, are you OK?' 'I'm fine,' he said, 'What about you?'

3  Discuss the questions. What do you think?

- a** Where was Liam falling?
- b** What information does Liam learn about their new location?
- c** What is unusual about the place?
- d** What happens next?

4  Work with a partner. Look at the chapter headings on the Contents page. What do you think happens in the story? How do you think it ends?

5  Share your ideas with the class.





1 THE TOTAL ECLIPSE



We live, we think, we feel in the present. We have memories of the past and dreams of the future. That's what living in time means. But one moment, one day, all that changed for Liam and Rose.

Liam and Rose met for the first time on a cliff top outside Brighton. Liam took the bus from home, Rose came up from the university where her father, a marine biologist, was working for a year. They both wanted to see the total solar eclipse and they knew that this was the perfect place.

They introduced themselves, chatted a bit, then waited for the eclipse to begin. Slowly, as the moon covered the sun, the birds fell silent, a cold wind blew, and day became night. It was just as they expected, but it was still amazing.

But then they saw something that they didn't expect, something impossible. They saw a strange winged creature – a giant bird – flying towards them with two tiny human figures standing on its back.

The creature hovered high up in the sky, then it fell down towards them like a meteor.

They covered their heads to protect themselves. They heard a terrifying scream. And then everything went black. They were falling. They were falling through space. They were falling through time.

GLOSSARY

- **fell silent:** stopped making noise
- **hovered:** hung or floated in the air
- **introduced themselves:** told each other their names
- **meteor:**
- **solar eclipse:** when the moon moves in front of the sun, hiding it for a short period
- **terrifying:** frightening; scary



After Reading

Vocabulary

- 1  **Decide if the following are ADJECTIVES or NOUNS. Share ideas with a partner.**

terrifying confusion fear horrible frightened terror horrifying
frightening horrified confusing terrible horror confused terrified

- 2 **Choose the correct option.**

- a 'Rose!' he called out in (frustrated/ frustration)
b Rose was trying to make a joke but she couldn't hide her
..... (frightened/fear)
c Liam knew the Minotaur from pictures in books. The reality was much
more (terrified/terrifying)
d Rose watched in as the Minotaur stepped slowly
towards her. (horror/horrified)
e Liam scratched his head, He was finding it hard to
think in the heat and noise. (confused/confusion)
f 'Don't be,' she said in a calm quiet voice.
(frightening/frightened)



- 3 **Listen and check your answers.**

- 4 **In the story, what were these things made of? Match the materials with the objects.**

stone metal clay plastic leather marble

- | | |
|---------------------------|--------------------|
| a pots | d waterfront |
| b walls of the maze | e sandals |
| c bones | f drone |

- 5 **Name two other things that can be made of each material.**

After Reading

Cambridge English Exams

K A2 Key English Test Reading and Writing Part 4

1 Read the extract from the story. Without looking at the story choose the correct word for each space.

While they were walking, Sophia came to a decision.

'I have to tell you **1** about my father,' she said. '**2** you listen to me?'

'Yes, of course,' said Rose. They sat down on the grass.

'When my father first got here, he tried **3** return home. For the power of dark energy to work best, you **4** to go high into the atmosphere. **5** he built a flying machine. And on a day when there were solar storms and a total eclipse, they took **6** into the sky.'

'They?' said Liam. 'Do you mean...?'

'Yes, he flew with Icarus, his son. He was a scientist, too. They were working together that day **7** they fell through time. But there was an accident and the machine that Icarus was flying crashed into the sea. And since that day, my father has felt **8** about his son's death. Later on, he met my mother and I was born. He made a new life for **9** here. But... but I think it's wrong to **10** you here when there's a chance for you to get back home.'

- | | | |
|-----------------------|--------------------|-------------------|
| 1 A nothing | B something | C anything |
| 2 A Do | B Might | C Will |
| 3 A to | B of | C and |
| 4 A can | B need | C must |
| 5 A Still | B Because | C So |
| 6 A off | B out | C up |
| 7 A when | B while | C as |
| 8 A sadly | B terribly | C guilty |
| 9 A yourselves | B itself | C himself |
| 10 A make | B force | C keep |