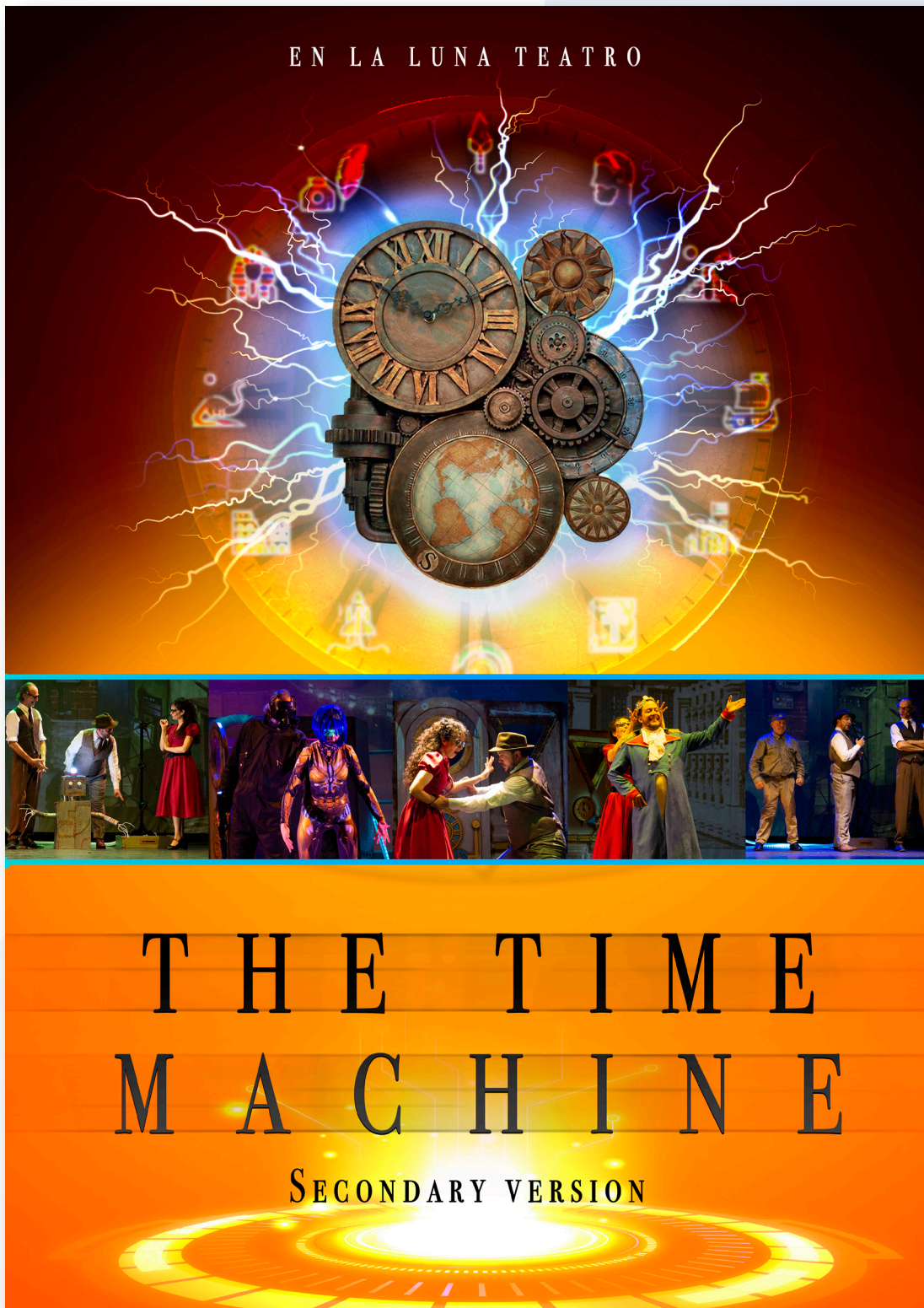




Didactic guide (Teacher)

For 3rd and 4th E.S.O. students



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PRESENTATION

Our new play in English, 'The Time Machine', is a show based on a historical fact: the invention of the atomic bomb.

The protagonists of our story really existed. This new adventure allows us to get closer to the figures of Robert Oppenheimer, Enrico Fermi, Leslie Groves and Eida Anderson. All of them were part of the Manhattan Project, whose aim was to create the atomic bomb that later caused chaos and destruction in Hiroshima and Nagasaki.

In our story the protagonists pursue this goal, to get the atomic bomb, but we introduce a fantastic element, the time machine, which will allow them to get a fundamental element for the bomb to work: uranium 235.

Real and fantastic elements come together to form a story full of action, music, humour, love, drama and which will undoubtedly make viewers reflect on many issues. In this project more than in any other we have tried to offer a play full of nuances and didactic values. Without losing sight of the fact that entertainment is the best way for our spectators to learn and test their knowledge of English.



SYNOPSIS

Robert Oppenheimer, Enrico Fermi and General Leslie Groves are part of a project whose aim is to create the atomic bomb. But they are unable to find the formula that will lead them to the invention of this device. They are worried because they know that if they don't succeed in inventing the atomic bomb, the enemy will, and that would be terrible.

Enrico calls his friend Eida Anderson, an expert in physics and chemistry, to help them. And indeed, she does, for Eida discovers that they need an essential element: uranium 235. After consulting her computer, they come to the conclusion that uranium is found in a mineral at Stonehenge, the famous stone monument in England. The problem is that Stonehenge is very far away, so Eida comes up with the idea of using a time machine that Robert has made, so they can travel faster.

Without much thought they get into the machine and it takes them to Stonehenge, but when they arrive, they realise that they are in prehistoric times, in the Bronze Age. There they discover that two Bronze Age men have the uranium, but they have to run away because the men try to eat them.





On the second journey the machine transports Elda to Napoleon's court, to the 19th Century. Robert must have travelled somewhere else, because he is not in the time machine. Elda will meet Emperor Napoleon and realise that in his crown there is a small piece of uranium. This time Elda gets the ore and returns to the time machine.

While in the laboratory, General Groves discovers that the machine is working and that Elda is travelling through time.

Robert has been sent to the future. To a very distant future. There he sees the devastating effects of the atomic bomb and discovers that in the year 2025 a third explosion caused the destruction of planet earth and that in the future the world is dominated by robots.

Robert records a message to warn his friends of what will happen in the future.

At the lab, Groves and Enrico realise that the machine hides a secret. With the help of a brave volunteer, they discover that inside the machine is Robert's message. A very clear message: they must destroy the uranium because the atomic bomb will end the world.

Meanwhile Elda and Robert have ended up in a much nearer future. They land in the middle of the war and there Robert tells Elda what is going to happen. Elda hands him the uranium just before she is hit by a bullet.

Robert puts Elda in the time machine to return to the present. But on the journey Elda dies. Enrico is waiting for them. Everyone is saddened by Elda's death, but she emerges from the time machine. She died in the future, but they have returned to the present and Elda is still alive. They decide to destroy the uranium immediately, but Enrico tries to stop them. He wants the uranium, as he knows that war is the biggest business.

Elda throws the stone into the time machine and when Enrico goes to get it, Elda shuts the machine and Robert sends him back in time to the Bronze Age. There the two Bronze Age men get what they want: food.

Leslie Groves brings the Mahanttan project to a standstill. They definitely want nothing to do with the atomic bomb.



DIDACTIC OBJECTIVES

EDUCATIONAL OBJECTIVES

This year, we present for you 'The Time Machine', a play that allows us to introduce students to a historical event of special relevance, the Second World War. But we will also deal with topics such as artificial intelligence (a world dominated by robots), the possibility of travelling through time, visiting the past, modifying the present and giving rise to a different future. Reality and fiction go hand in hand to create a highly entertaining play full of thought-provoking nuances.

Our aim is to offer a fun play through which students can reinforce and practise their vocabulary.

There are many ways to work and assimilate the language, and we believe that the theatre offers a very attractive possibility for learning. As always, we provide you with teaching material to present in class before and after the performance.

It is important to work in the classroom so that the students get more out of the activity. We hope you find this play, and our project in general, useful.

GENERAL OBJECTIVES

- To promote communicative competence in foreign languages in students through a fun, didactic and entertaining activity.

SPECIFIC OBJECTIVES

- To take the pupils to see a play in English with all the elements that should be part of a dramatic event: costumes, scenery, special effects, music, dialogue.
- To develop imagination, creativity and a taste for theatre.
- Expand expressive resources: physical (gestures), vocal (sounds, songs) and linguistic (expressions and vocabulary).
- Acquire fluency in English.
- Increase exposure to the language.
- To have fun.
- Support the process of teaching English through songs and dramatic play.



- To help express oneself with good intonation and pronunciation.
- To learn and work through music.
- To create resources through our didactic guide and activities so that they can familiarise themselves with the play and practise the language.
- To bring students closer to a historical event that has been fundamental in the history of mankind.
- To introduce students to the people who were part of the project that resulted in the creation of the atomic bomb.
- To introduce pupils to Elda Anderson, a female scientist who took part in the Manhattan Project.

METHODOLOGY

We propose a project based on theatre as a means to encourage interest and enjoyment in a foreign language, in this case English.

To do this, we have established a series of worksheets to work on in class before and after seeing the play: The Time Machine.

We also recommend that you work on the documents VOCABULARY and SCRIPT OF THE PLAY.

Another very interesting resource are the SONGS. You will find the lyrics in a document called SONGS LYRICS and, you will be able to listen to the audio tracks through our website (user area) and work with the karaoke tracks. If you cannot access the material through the user area, our counsellors will help you by sending all the documents to your email.

You will also receive a document with additional activities. This is information that will be useful for the students when doing the worksheets.

If you have any questions, please do not hesitate to get in touch with us, you can contact with your EDUCATIONAL ADVISER (Aurora Chica or Inma Rodriguez) or with the company through our email (enlunateatro@yahoo.es) or by phone 618720491.

Thank you very much. We hope you enjoy this new experience.



Name:.....

BEFORE PERFORMING THE PLAY

ACTIVITY 1: KNOWING THE CHARACTERS

B

Read information about the characters in our play.

You can do this in the extra activities or by looking for information yourself.

Once you have read about them, answer the following questions:

- Who was Robert Oppenheimer?

- What was Eida Anderson's job?

- In what year did Enrico Fermi receive the Nobel Prize?

- Where was Leslie Groves born?

- In what year did Robert Oppenheimer die?

- Was Enrico Fermi part of the Manhattan Project?

- Eida Anderson prepared the first sample of _____.

- What did Leslie Groves do for a living?



Name:.....

B

ACTIVITY 2: WHAT IS THE PLAY ABOUT?

Thanks to this short synopsis you will know what the play is about. The problem is that some words are missing, can you find them?

We give you some clues.

SYNOPSIS

Robert Oppenheimer, Enrico Fermi and General Leslie _____ are part of a project whose aim is to create the _____. But they are unable to find the _____ that will lead them to the invention of this device.

Enrico calls his friend Elda Anderson, a _____ expert, to help them. Elda discovers that they need a fundamental element: _____. After consulting the _____, they discover that uranium is found in a mineral at Stonehenge, the famous stone monument in _____. But _____ is a long way away, so Elda comes up with the idea of using a time _____ that Robert has made.

The machine will take them to Stonehenge, but when they arrive, they realise that they are in _____ times, in the Bronze Age. There they discover that two _____ men have the uranium, but they have to run away because the men try to _____ them.

On the second _____ the machine transports Elda to Napoleon's court, to the 19th _____. Elda will meet the _____ Napoleon and realise that in his _____ there is a small piece of uranium. On this occasion Elda gets the _____ and returns to the time machine.

While in the laboratory, General Groves _____ that the machine is working and that Elda is travelling _____ time.

Robert has been sent to the _____. To a very distant future. There he sees the _____ effects of the atomic bomb and discovers that in the year 2025 a _____ explosion will cause the destruction of planet _____ and that in the future the world is dominated by _____.



Meanwhile Elda and Robert _____ up in a much nearer future. They land in the middle of the war and there Robert tells Elda what is going to _____. Elda hands him the uranium just before she is _____ by a bullet.

We don't want to give away any more secrets. You can see the ending when you come to the theatre.

FORMULA, URANIUM 235, MACHINE, THROUGH, HAPPEN, EMPEROR, STONEHENGE, PHYSICS, ATOMIC BOMB, EARTH, FUTURE, HAVE ENDED, GROVES, JOURNEY, COMPUTER, AUDIENCE, HIT, THRID, CENTURY, ROBOTS, DEVASTING, TOGETHER, MINERAL, EAT, BRONCE AGE, DISCOVERS, LOST, ENGLAND, PREHISTORIC, CROWN



Name:.....

ACTIVITY 3: BECOME A TIME TRAVELLER



We suggest you become a time traveller and find out the names of these places and characters. You may need to read the information in the extra activities or do some research on the internet.

- A prehistoric monument on Salisbury Plain, Wiltshire, England, consisting of a large circle of megaliths surrounding a smaller circle and four massive trilithons. _____
- A French general, political leader, and emperor of the late eighteenth and early nineteenth centuries. _____
- The unofficial designation for the U.S. War Department's secret program, organized in 1942, to explore the isolation of radioactive isotopes and the production of an atomic bomb. _____
- Was a French painter in the Neoclassical style, considered to be the pre-eminent painter of the era. _____
- Noun the war between the Axis and the Allies, beginning on September 1st, 1939, with the German invasion of Poland and ending with the surrender of Germany on May 8th, 1945, and of Japan on August 14th, 1945. _____
- A bomb whose potency is derived from nuclear fission of atoms of fissionable material with the consequent conversion of part of their mass into energy. _____
- A machine that resembles a human and does mechanical, routine tasks on command. _____
- A programmable electronic device designed to accept data, perform prescribed mathematical and logical operations at high speed, and display the results of these operations. _____



Name:.....

ACTIVITY 4: TIME FOR ROBOTS. GETTING TO KNOW THE SONGS THAT ARE PART OF THE PLAY

B

There are 7 songs that are part of the play.
We invite you to listen to them in class before going to the theatre. They will give you many clues as to what the play is about.
If you can't listen to them all, we suggest you listen to: "Time for robots".

ROBOTS

*Bomb, bomb, bomb
Welcome to the end of
(x2)
World, world, world
This is the end of
(x2)
it's time for the robots
a digital age
no feelings, no emotions
the power of robots
robots, robots, robots
this is the power of robots
robots, robots, robots
this is the power of
it's time for the robots
Robots,
a digital age
no feelings, no emotions,
Robots
the power of robots*

After listening to this song, we discuss in class: What would happen in a world dominated by robots?



Name:.....

ACTIVITY 5: WHO IS WHO?

B

Read the extra activities for information about the characters in the play.
Then match the name with the corresponding box.

- Directed the Manhattan Project



ELIDA ANDERSON

- He received a Nobel Prize in Physics



LESLIE GROVES

- Said atomic bombs had been a necessary evil



ROBERT OPPENHEIMER

- Prepared the first laboratory sample of pure uranium-235



ENRICO FERMI



Name:.....

AFTER PERFORMING THE PLAY



ACTIVITY 6: QUESTIONS ABOUT THE MACHINE

You have seen the play.

Now it is time to find out what you have understood about the argument. So answer the following questions:

- What are the names of the scientists who are trying to make the bomb a reality?

- What is Leslie Groves' job?

- What element do they need to make the bomb work?

- What is the first place they visit thanks to the time machine?

- Which characters have the uranium and where do they keep it?

- Which character discover that the bomb will destroy the world?

- Who invents Laia?

- At the end of the play, which character wants the bomb to work?



Name:.....

ACTIVITY 7: TRAVELLING BACK IN TIME



Let's travel back in time to get to know a little better one of the protagonists of our history: Napoleon Bonaparte.

Read his story in the extra activities and then answer the following questions:

- When and where was Napoleon born?

- When did Napoleon become Emperor of France?

- Did he manage to conquer Russia?

- To which place was Napoleon exiled?

- When and where did Napoleon die?



Name:.....

ACTIVITY 8: A JOURNEY INTO THE FUTURE

A

The play takes place in different scenarios from the past, present and future. And it proposes several questions that are interesting to reflect on. Imagine the future and draw a picture of it or write a short description of it.



Name:.....

ACTIVITY 9: WORD SEARCH

Find the following words in this word search.

ROBERT, LESLIE, ELDA, ENRICO, LAIA, NAPOLEON, TRAVEL, ATOMIC BOMB, MACHINE ,
PREHISTORY, STONE, CROWN, CONQUER, PORTRAIT , URANIUM, FUTURE, MESSAGE, ROBOT,
NAGASAKI, DESTRUCTION, DEATH, DISASTER, EXPLOSION, BUSSINES, GUN

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Y | O | C | E | N | R | I | C | O | B | F | R | F | S |
| N | R | D | O | N | A | G | A | S | A | K | I | U | Q |
| S | A | C | I | N | R | O | B | O | T | A | L | T | B |
| N | S | P | R | S | Q | O | D | E | A | T | H | U | P |
| E | Z | T | O | O | A | U | V | V | L | O | U | R | O |
| O | L | F | O | L | W | S | E | O | A | M | R | E | R |
| E | X | D | M | N | E | N | T | R | I | I | A | L | T |
| G | C | T | A | C | E | O | A | E | A | C | N | W | R |
| Y | V | Q | G | U | N | T | N | N | R | B | I | L | A |
| F | Z | R | T | R | A | V | E | L | G | O | U | Z | I |
| P | R | E | H | I | S | T | O | R | Y | M | M | E | T |
| Q | M | E | S | S | A | G | E | I | H | B | N | N | J |
| Y | V | R | O | B | E | R | T | L | E | S | L | I | E |
| M | A | C | H | I | N | E | N | Y | M | V | T | H | C |



Name:.....

ACTIVITY 10: REMEMBERING THE PLAY



After watching the play, answer the following questions:

- Who was your favourite character?

- What was the moment you liked the most in the play?

- Which song did you like the most?

- Who says the phrase: "Someday you will rule the world"?

- Who gets the uranium?

- What do the Stone Men want?

- What does Napoleon want?

- Who dies in the war?

- Who wants uranium at all costs?



Name:.....

BRIEF SYNOPSIS

Our new play in English for Secondary Education is based on a real event: the making of the atomic bomb.

Fact and fiction are mixed to create a play full of suspense, action, adventure and all the necessary ingredients to create a plot that engages the viewer from the very first moment.

Robert Oppenheimer and Enrico Fermi are working to create the atomic bomb. General Groves has asked them to do it as soon as possible, but they are not succeeding.

One day Elda Anderson arrives at the lab and discovers that what they need is uranium 235. The uranium is a long way away but Elda comes up with the idea that they can use the time machine to travel faster.

Once they get into the machine, they will have all sorts of adventures that will take them to visit prehistoric times, Napoleon's court and the future.

Will our protagonists get what they are looking for?

To find out, we invite you to enjoy this marvellous play in English with music, songs and incredible effects.



En la luna teatro

TRABAJAMOS PARA OFRECER UN TEATRO EDUCATIVO DE CALIDAD

Inglés

- Dr. Cranky and the Special Stone (Childhood education)
- The Time Machine (Primary school version)
- The Time Machine (Secondary school version)

Teatro Clásico

- La Dama Boba (Educación secundaria)

Teatro y Género

- Rufina, Estrella y el Baúl de cuentos (Educación infantil)
- Mi tiempo no tiene memoria (Educación secundaria)

Teatro Musical

- El Gato con Botas (Educación primaria)