



Didactic guide (Teacher)

For 1st and 2nd E.S.O. students

EN LA LUNA TEATRO



# THE TIME MACHINE

SECONDARY VERSION

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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](mailto: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

Read information about the characters in our play.

You can do this in the extra activities or look for information on your own.

Once you have read about them, answer true or false:

	TRUE	FALSE
• Robert Oppenheimer was a famous airline pilot.	<input type="checkbox"/>	<input type="checkbox"/>
• Elda Anderson was part of the Manhattan Project.	<input type="checkbox"/>	<input type="checkbox"/>
• Enrico Fermi was an expert in chemistry.	<input type="checkbox"/>	<input type="checkbox"/>
• Leslie Groves always said that no one was affected by radiation after the detonation of the atomic bombs.	<input type="checkbox"/>	<input type="checkbox"/>
• Enrico Fermi was Norwegian.	<input type="checkbox"/>	<input type="checkbox"/>
• Elda Anderson died of heart failure.	<input type="checkbox"/>	<input type="checkbox"/>
• Robert Oppenheimer opposed the development of the hydrogen bomb.	<input type="checkbox"/>	<input type="checkbox"/>
• Leslie Groves was a US Army general.	<input type="checkbox"/>	<input type="checkbox"/>



Name:.....

B

**ACTIVITY 2: WHAT IS THE PLAY ABOUT?**

Read the synopsis of the play in class and watch the video summary of the play "The Time Machine".

Once you have consulted this material, answer the following questions:

- Who are the scientists who are trying to produce the atomic bomb?  
\_\_\_\_\_  
\_\_\_\_\_
- What element do they need to create the atomic bomb?  
\_\_\_\_\_  
\_\_\_\_\_
- Where is this element found?  
\_\_\_\_\_  
\_\_\_\_\_
- Where do Eida and Robert travel to first?  
\_\_\_\_\_  
\_\_\_\_\_
- Where does Eida go after visiting the first place?  
\_\_\_\_\_  
\_\_\_\_\_
- Where does Robert go after visiting the first place with Eida?  
\_\_\_\_\_  
\_\_\_\_\_
- Who dies in the play?  
\_\_\_\_\_  
\_\_\_\_\_
- Who wants to create the bomb even though they know it can destroy the world?  
\_\_\_\_\_  
\_\_\_\_\_





Name:.....

### ACTIVITY 3: PLACES AND OTHER CHARACTERS THAT ARE PART OF THE STORY

In our play our protagonists visit Prehistoric times (Bronze Age), Napoleon's court (19th century) and the future.

After reading the information in the extra activities, answer the following questions:

- Where is Stonehenge located?

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- What is Stonehenge?

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- Napoleon was Emperor of France - true or false?

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- Did Napoleon conquer Russia?

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- How long did World War II last?

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- When did World War II end?

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Name:.....

**ACTIVITY 4: THE SONGS 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: "Let's go to the machine".

**LET'S GO TO THE MACHINE**

Let's go to the time machine  
And we will travel very fast  
let's go to the time machine  
we will get what we want  
an hour will turn into a second  
we'll cross space and time  
there's no time for fear  
no time for doubt  
let's go to the machine  
(x 4)

Let's go to the time machine  
and then we will fly  
let's go to the time machine  
let's fly, let's fly  
let's go to the machine  
(x4)

let's go to the time machine  
we'll cross space and time  
let's go to the machine



Name:.....

ACTIVITY 5: WHO IS WHO?

B

Look for pictures of the main characters in the play.

Once you have done this, put the name of the main characters under each picture.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



Name:.....

AFTER PERFORMING THE PLAY

ACTIVITY 6: TRUE OR FALSE? QUESTIONS ABOUT THE TIME MACHINE



You have seen the play.

Now it's time to find out what you understood about the plot. So, answer true or false to the following questions:

	TRUE	FALSE
• Robert Oppenheimer, Enrico Fermi and Eida Anderson are trying to make the atomic bomb work.	<input type="checkbox"/>	<input type="checkbox"/>
• Leslie Groves is Robert Oppenheimer's assistant.	<input type="checkbox"/>	<input type="checkbox"/>
• The element they need to make the bomb work is called Plutonium.	<input type="checkbox"/>	<input type="checkbox"/>
• The first site they visit is Stonehenge.	<input type="checkbox"/>	<input type="checkbox"/>
• Eida gets the uranium from the court of Napoleon Bonaparte.	<input type="checkbox"/>	<input type="checkbox"/>
• Enrico discovers that the bomb will destroy the world.	<input type="checkbox"/>	<input type="checkbox"/>
• Laia is an invention of Leslie Groves.	<input type="checkbox"/>	<input type="checkbox"/>
• Enrico wants the bomb to work so he can get money and power.	<input type="checkbox"/>	<input type="checkbox"/>



Name:.....

ACTIVITY 7: THE MISSING WORDS



Once you have seen the play, it will be easy for you to spot the missing words in the text and put them in their place.

Robert Oppenheimer, Enrico Fermi and Elda \_\_\_\_\_ are trying to make the atomic bomb work. They need \_\_\_\_\_ and must go to Stonehenge to get it. As Stonehenge is far away, they decide to use Robert's invention, \_\_\_\_\_.

After searching several places, Elda gets the uranium.

Robert, discovers that the \_\_\_\_\_ will destroy the world, he decides that they must destroy the uranium.

Robert finds Elda and asks her for the uranium to destroy it, but Elda is injured and \_\_\_\_\_.

When they return to the present Elda is still \_\_\_\_\_ and they all decide to destroy the uranium. Everyone except \_\_\_\_\_ who sees the war as big \_\_\_\_\_ and wants the bomb to work.

In the end Elda manages to send Enrico to the \_\_\_\_\_ and General Groves decides to put an end to the \_\_\_\_\_ of the bomb.

- |          |                  |           |             |          |
|----------|------------------|-----------|-------------|----------|
| business | alive            | bomb      | uranium 235 | Anderson |
| dies     | the time machine | invention | past        | Enrico   |



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.

WAR, BOMB, STONEHENGE, NAPOLEON, ROBOT, LAIA, PHYSICS, COMPUTER, PRESENT, OPPENHEIMER, LESLIE, TRAVEL, MESSAGE, PAST, FUTURE, ENRICO, BUSINESS, PORTRAIT, CROWN, URANIUM

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



Name:.....

**ACTIVITY 10: REMEMBERING THE PLAY**



After watching the play, answer the following questions:

- Who was your favourite character?

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

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- Which song did you like the most?

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

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- Who gets the uranium?

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- What do the Stone Men want?

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- What does Napoleon want?

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- Who dies in the war?

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- Who wants uranium at all costs?

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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. Kranky 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)