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**"Robo7's Adventures"
Participation Theater for Children**



Robo7 and Al-Khwarizmi

Dr. Mohamed Abou El-khir

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Robo7 and Al-Khwarizmi

Characters

Robo7: An ambitious Robot who wants to improve his capabilities to be
Super-Robot

Dr. Hind: Head of Research Lab for Electronic Robotics

The Arabic scientist: Muhammad ibn Musa Al-Khwarizmi who is nicknamed
The Father of Algebra

Robot 1: tall

Robot 2: short

Children's group: 9 years old

A group of Robots

Scenes

Scene 1: Future Robotics Lab

Scene 2: The Audience Hall

Scene 3: The library “House of Wisdom”

Scene 4: The City Center

Preface

Thinking is the essence of learning. Participation between the performer and the recipient in a child's theater is considered a primary stimulus to thinking. Hence, the play is based on the "Participation Theater" approach, as the play includes in its dramatic construction some scenes that allow a direct relationship of discussion and interaction with the audience of children during the performance. And this requires the director with the actors to explain the topic under discussion in its many details during the exercises, and what they should behave in different situations during the event, this participation contributes to the growth and development of the cognitive and aesthetic aspects of the children, whether the performers or the audience of participants, realizing the principle of the educational scientist Vygotsky "THE ZONE OF PROXIMAL DEVELOPMENT" In the context of this vision, theater is considered an active and influential element in developing the child's personality with new experiences and knowledge that keep pace with the civilized development of the knowledge age, and face future challenges.

The directorial vision expands in presenting this play to different styles in the type of vocabulary of the theatrical performance, where the stage can be, from designing scenes, accessories, "accessories" to clothes, lighting, and composing music it depends on advanced technological technology, and in another way the show can be presented with a method. The simple theater "where the place is a garden, a playground or a suitable hall ... and the materials that make up the show depend on the creativity of solutions in the use of simple clothes, the use of symbols that give significance to the event and the character, and also the use of live music with musical or recorded instruments that create the psychological atmosphere of the situation, .. But it is important and necessary that the artistic elements in both styles - audible and visual - harmonize and complement each other and fulfill the values of the theatrical performance.

Scene 1 Future Robotics Lab

(The scene takes place in the robotics lab. There are electronic machines, TV screens on the walls, each showing a group of moving images of a group of robots, and on the other screens a group of numbers and charts appear on the other screens, interfering electronic sounds suggesting whistles.

You can create a playful, lyrical exhibition board that shows the work that robots do in factories, the sea, space, nuclear laboratories... etc., and shows that robots have capabilities that exceed human capabilities.)

Robo7: (Asking Dr. Hind) Dr. Hind... Oh... Dr. Hind..... dr. Hind

(Dr. Hind is busy at work, does not answer, fixes a computer with many wires, and looks at a screen)

Robo7: Dr. Hind, I would like to talk to you.

(Dr. Hind walks into the lab without answering. She is absorbed in solving a problem)

Robo 7: Do you hear me, Doctor?

Dr. Hind: Yes, I hear you, Robo 7.

Robo 7: Why didn't you answer me?

Dr. Hind: Because I'm busy right now, I want to solve a problem and.....

Robo 7: I'm tired of work.

Dr. Hind: (surprised) What are you saying!?

Robo 7: I'm tired, I'm tired and I want to get out of this lab, I feel like I am restricted, no development, I'm bored.

Dr. Hind: You're bored!

Robo 7: Yes, from a lot of work and monotony. I don't want to stay here, I want to live in a new world, I want to go on a journey around the world.

Robot 2: A journey around the world on your own.

Robot 1: Don't be silly, Robo7, be logical.

Robo 7: I am logical.

Dr. Hind: The lab needs you, we should work together, Robo7, to improve research, and...

Robo7: No, I'm too bored, I want to be developed more, and I want to get more psychological responses such as joy, anger, fear, and,....

Dr. Hind: Robo7, I must test your capabilities in a new lab, give me a chance. This isn't the right time.

Robo7: Why?

Dr. Hind: Because the research I do is going to change the world of robotics, it's going to make a new generation. You will be one of this generation.

Robo7: How?

Dr. Hind: I will make you superior to man. Don't make trouble and don't be in a hurry.

Robo7: No, I'm not in a hurry.

Dr. Hind: you should think carefully, because each one of us has a role to play, do you understand? Let's wait and see.

Robo 7: Wait! Ha ha ha, I am out of this lab, I want to do many things, I feel I am talented at singing... my voice is special, don't you?

(Robo 7 makes operatic sounds. Dr. Hind laugh while Robo jumps on a high table)

Robo7: Why are you laughing? I will go out of this lab, and go out into the joyful world, away from here.

Dr. Hind: Please, Robo7, come down.

Robo 7: Please, Go away.

Robot 2: Come down, Robo7, you're not in an amusement park.

Robo7: I want to do a lot of things; I want to act in cinema like Batman and Harry Potter.

Dr. Hind: Come down, Robo 7, I'm afraid, you'll fall and get smashed...and....

Robo7: Don't fear, I am so strong.

Robot 1: Get down, Robo7.

Robo 7: No, I will not go down unless you pick up me to the top.

Robot 2: Top?

Robo7: Yes.

Robot 1: Top of the lab?

Robo7: No.

Robot 2: Mountain?

Robo7: No.

Robot 1: Top of the pyramid?

Robo7: No.

Robot 2: Top of the tower?

Robo7: No.

Robot 2: How clever you are! Which top do you mean?

Robo 7: I mean the top of knowledge, I want to understand all books, magazines, and encyclopedias, I want to add something new to humans and knowledge, such as Newton when he added the law of gravity, Edison who

made the electric lamp and, like Einstein, who put the theory of relativity and, like Ahmed Zewail when he discovered the theory of Femtosecond.

Robo7: (Jumping to the stage) Look .

(There can be a discussion between the actors and the audience about these scientists. Robo7 can also press a key on his chest, a screen moves gradually to present a documentary film about the scientists' achievements. The duration of the film is three minutes)

Robo7: I want to be a scientist.

Dr. Hind: Relax, Robo7, you are the first robot asking this request.

Robo7: And I won't be the last one. I know my way.

(Robo7 runs outside the lab)

Dr. Hind: Come on quickly, look for Robo7 everywhere, and don't let him run away.

Robot 1: We'll do that...

Dr. Hind: Hurry up before he gets out of the lab....

Robot 2: Now...Come on, Robo7...Robo7...Robo7

(Robot 1 and Robot 2 come out of the lab, while Dr. Hind is worried)

(Blackout)

Scene 2 The Audience Hall

(Interlaced electronic sounds are heard as sirens. The lights go out and turn on in a situation of tension, whether on the stage or the audience hall. Robot 1 and Robot 2 enter the theater hall, and they talk to the children's audience)

Robot 1: Has anyone seen a Robo7? Has anyone seen Robo7?

Robot 2: We are looking for something very important...

Robot 1: We hope for more lighting...more lighting

(The stage lights are illuminated the hall, and the actors talk to the audience about Robo7's escape)

Robot 2: I feel we're going to find him...we have to find him...

Robot 1: Yes, we'll find him...We'll find him...

Robot 2: we tried to send many emails to different areas..., but we did not receive any responses.

Robot 1: (Speaking to a child) If you'll... move a little right, I'm looking for him...ah he's not here.

Robot 2: (talking for children) And if you allow me, please move to the left a little bit, oh, I did not find him.

Robot 1: The management of the future lab will announce a very special prize for the one who can find Robo7...He is the best robot in the Future Lab.

Robot 2: What is the prize?

Robot 1: The prize is an advanced laptop that works with Quantum.

Robot 2: So, we must struggle to search for him, to get the valuable prize.

Robot 1: I found him..."He points to a child in the audience".

Robot 2: Not him, my friend...Yes, I found him, he's here...

Robot 1: Not him...not him...

Robot 2: Robo7 has disappeared, and we don't know where he is?

Robot 1: I think I know where we can find him?

Robot 2: Quickly say where is he?

Robot 1: You will find him in his quiet corner with a computer, swimming in the world of Internet.

Robot 2: This global network has caused us a lot of problems and...

Robot 1: Who did invent this network?

Robot 2: It's Tim Berners-Lee who dedicates this invention to humanity.

Robot 1: Mr. Lee has caused us a lot of problems.

Robot 2: What?

Robot 1: Because Robo7 does not leave the Internet all day and night.

Robot 2: Not only Robo7, but all children and young people and that's a terrible thing.

Robot 1: No, it's a good thing.

Robot 2: It's terrible. It is a waste of time.

Robot 1: That's good, and thanks to Mr. Tim Berners-Lee. I enjoy watching pictures, movies and get a lot of information about what I need so easily and so vastly.

Robot 2: It's terrible.

Robot 1: It's good.

Robot 2: Let's ask our friends.

Robot 1: Ok, Let's ask our friends

(Through improvisation, it could be a debate between Robot 1, Robot 2, and the children's audience about: Is the Internet useful? Do we use it to obtain information? How much time do we spend with the Internet? Do we organize our time between work, and rest? The conclusion of the discussion is to focus on the positive perception of using Internet.)

Robot 1: We want to solve the problem now...Where is Robo7?

(Sound effect of receiving email on Robot 1's mobile)

Robot 1: Wait... I just got an e-mail.

Robot 2: What is this message? Please read it quickly.

Robot 1: "The control department in our lab declares that Robo7 has been sighted in the City Center.

Robot 2: So, forward to the City Center.

Robot 1: Yes. let's go.

Robots 2 and 1: Hurry up.

(Blackout)

Scene 3 The library “House of Wisdom”

(Al-Ma'mun era, Baghdad in the year 200 AH, there is a sign that says, “House of Wisdom”, the scientist Al-Khwarizmi wears an Arab dress as he stands immersed in front of the books and flipping them off the shelves. Robo7 enters on one side and talks with the audience.

Robo7 observes Al-Khwarizmi, he immediately enters on one side and talks with the audience.)

Robo 7: Time-Gate is great. It can do anything. It can take me wherever I want. Ha, how beautiful to be here in the House of Wisdom in Baghdad, I came quickly. Wow, here is the scientist Muhammad ibn Musa Al-Khwarizmi, who was born in the year one hundred sixty-four AH, seven hundred and eighty-one AD. Excuse me, aren't you Al-Khwarizmi the father of Algebra?

Al-Khwarizmi: (surprised) Yes, but who are you? Oh, God, and how did you know me?

Robo 7: I'm Robo7, because I know I have a lot of books and encyclopedias, which include files about your books and journeys, however, I came to consult you, I need to be improved by Dr. Hind.

Al-Khwarizmi: Who is Dr. Hind??

Robo7: Head of The Robotics Lab in the twenty-first century.

Al-Khwarizmi: (surprised) So, are you coming to me from the future?

Robo 7: Yes.

Al-Khwarizmi: Why are you here, Robo7?

Robo7: I came here to escape from other robots.

Al-Khwarizmi: Why did you run away from them?

Robo 7: Because I ran away from the lab.

Al-Khwarizmi: Why did you run away from the lab?

Robo7: I'm tired of working...I'm tired of solving equations and deciphering ciphers. I am tired of the arrangement, and the work is boring. I want to improve my skills.

Al-Khwarizmi: No, Robo7, you should not say that!

Robo7: Why?

Al-Khwarizmi: Work is very important for the development of life. Each person is necessary to have a job, and you may not escape aimlessly, as I can't sail the ship aimlessly. Without you own a lot of encyclopedias, through your job, you wouldn't know me that I am Al-Khwarizmi, is that true?

Robo7: Right, but aren't you bored of your work here at the library?

Al-Khwarizmi: No, I love my work, I love this place, and I spend long hours reading, researching, meditating, and writing there. This place is my home in which I find my comfort.

Robo7: But what's the point?

Al-Khwarizmi: The library gave me access to a lot of knowledge and languages, especially the Greek language, which I translated from Greek to Arabic.

Robo7: Yes, knowing languages is useful. language is a new window which can help to learn about the history and sciences. But how did you benefit from that?

Al-Khwarizmi: I wrote a book called "The Picture of the Earth", in which presents a visualization of the Earth's circumference with descriptions of countries, beaches, and seas in the Mediterranean, Asia and Africa. This book was based on Ptolemy's Geography.

Robo 7: Was that during the era of the Abbasid Caliph al-Ma'mun?

Al-Khwarizmi: Yes, I also made a map of the world where the Caliph asked me to do that, and seventy geographers worked with me to achieve it.

Robo 7: The Caliph al-Ma'mun loved science and encouraged scholars to write and translate, and that is why he asked you to write the book "Al-Jabr and Al-Muqabala" and encouraged you to do that, is it right?

Al-Khwarizmi: Yes, and this book has benefits for the public in their daily lives, such as arithmetic operations in the affairs of trade, in buying and selling, money exchange, calculating salaries, measuring the area of land, the specific unit of measurement, the depth of wells, as well as distributing the inheritance to the beneficiaries according to Islamic law.

Robo7: This book had a great influence in Arab and Western civilization, as it has been translated into many languages, and was a reference for students and scholars in European universities. You were the first to separate the science of Algebra from arithmetic.

Al-Khwarizmi: Thank you. It is the grace of God and the hard work.

Robo7: But you didn't stop there, you wrote about planetary science, is this right?

Al-Khwarizmi: Yes, in Astronomy. It is the science that studies the movements of planets and stars in the sky. The scholar Muhammad Al-Fazari has authored the book "The Great Sindh Hind"

Robo7: What is the meaning of the word Sindh Hind?

Al-Khwarizmi: It is an Indian word that means immortality, and the book means great immortality. I rewrote this book and added new information to it. The book had a great impact in the field of astronomy.

Robo7: But it still remains to you that the whole world uses the word "Al-jabr", which is an Arabic word, as you used it in your Mathematics books.

Al-Khwarizmi: Your work must be useful to others.

Robo7: The tables of logarithms now known still hold your name Al-Khwarizmi.

Al-Khwarizmi: To this extent do you remember me?!

Robo7: You are influential in all of our lives. Algorithms and the development of your tables solving problems that involving large numbers. Your tables also facilitated in the manufacture of calculators, computers, and even artificial intelligence that depends on algorithms, which is one of your creative ideas.

Al-Khwarizmi: I have tried to do my duty towards the society in which I live.

Robo7: Allow me, our venerable scientist, to use your method of algorithms and benefit from it to spread a useful book that he likes, to as many friends as possible.

Al-Khwarizmi: How is that Robo7, the father of ideas?

Robo7: Each one must send a book he likes to three people, and he asks each of them to send the book to three other people, and then he asks each one to send it to three other people, and so on, thus we achieve the recurring algorithm system. Thus, it will spread and expand circle and goodness reaches many people, and from here goodness prevails for all.

Al-Khwarizmi: Great idea, Robo7.

(A documentary film can show Al-Khwarizmi's life and his books. After the film, a discussion can be opened from Robo7 with the audience and with Al-Khwarizmi about the importance of science and scholars in the progress of society.)

Al-Khwarizmi: Thank you, but you did not tell me about your problem?

Robo 7: I say I'm bored of working in the lab, I work every day for twenty hours and fifteen minutes, twenty-five seconds, I need to take a rest and need to be improved, I would like to be a Super Robo7.

Al-Khwarizmi: There is no objection at all to have a rest and to improve. You can do both through discipline not through escaping. You should know that to be a Super-Robot this requires experiments and time. You should not leave the place without informing your manager to avoid confusion in the work system.

Robo 7: Right...I was in a hurry and rushed off without thinking of a solution to the problem...I should have thought first and then decided, anyhow thank you for your advice.

Al-Khwarizmi: It's my pleasure, please I have to go because I have an appointment with my students to explain to them a new lesson in astronomy. Goodbye Robo7, and never forget the value of work and science. Promise me you'll think first.

Robo 7: Don't be afraid I won't forget, and I promise I'll think first, bye.

(Al-Khwarizmi goes out)

Robo 7: It is wonderful to meet with scientists, and now I would like to go back again through the Time-Gate before my battery runs out, ah, I did not charge it for ten days and six hours ago, what can I do? oh, oh!

(Robo7 takes out from his pocket a small stick which makes different lights. Then Robo draws a gateway in the space after that, he enters it and disappears outside the stage.)

(Blackout)

Scene 4 The City Center

(A crowded street in the city center, buildings, shops, advertisements, trees, cars. Robo7 enters trying to cross the street to the other side in a crowd of cars.)

Robo7: What's all that noise? What is a crowded street? what is this noisy? What is that? where am I? This is not the street which I entered a little while ago. Am I lost? I can't see very well, it's too crowded. It seems like, I'm back in the twenty-first century. Any Help? Is there any help, my friends?

(While Robo7 was discussing with the audience, Dr. Hind entered the stage)

Dr. Hind: Robo7, don't move, ...

Robot 1: Yes, don't move, Robo7.

Robot 2: Yes, you won't run away this time. You can't escape.

Robo7: I told you I would never go back to the lab.

(Robo 7 tries to escape. The stage in a pandemonium situation)

Dr. Hind: Don't run away, Robo7...I want to talk to you...Please.

Robo7: Yes, what do you want?

Dr. Hind: I want to tell you that the research that I am doing has succeeded and then I can continue to develop your system, believe me...

Robo7: I'm going to be a Super Robo7.

Dr. Hind: Believe me, Robo 7, you will be Super Robo 7, and will fill your memory with information and encyclopedias, which will help our friends, and people to do a good job.

Robo7: Yes, I believe you, Dr. Hind, you taught us honesty and telling the truth, no matter what.

Robot 1: We want you in the lab, Robo7.

Robot 2: There are many projects in the lab that need you.

Robot 1: Your absence has caused irregularities in the tasks we do.

Robot 2: We need you, Robo7, together we can make good achievements.

Dr. Hind: They want you with them, (Silence).

Robo7: I respect Dr. Hind's opinion. However, I want to know what my friends think. (To the audience) Shall I go with them and cooperate with Dr. Hind in lab.

(Discussion on this topic will be oriented towards the value of cooperation)

Robo7: Yes...I'm going back to work...I'm going to work and create new ideas with Dr. Hind and my friends.

Dr. Hind: And I, Robo, 7 I will program you with the encyclopedias that you have asked for, and you will become a Super-Robot.

Robot 1 and 2: We will help you download these encyclopedias

Robo7: You really are the most beautiful and loyal friends...I love you all...We will work together for the future.

The collection: Live Robo7. Long live Robo7, together we will build our city, together we will build a new world.

(Theater turns into a state of joy, through a Musical show that stimulating cooperation, and the value of science in order to build up our country and our world in a better way. Everyone moves to work hard and actively through expressive movements and mime, such as one builds other works on the computer, another runs a machine in a factory, another paints a picture, And another filming the event with a camera)

Curtain