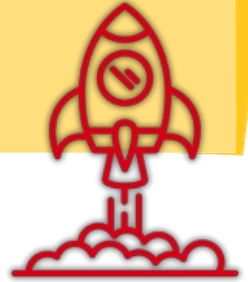


Title: Time Chatbots

Educational level: Third Cycle of Primary Education.

Curricular areas: Natural Sciences.

Timing: Two sessions (45 minutes each).



Summary

“Time Chatbots: Exploring the Era of Intelligence” is an unplugged activity where third-cycle Primary students simulate being chatbots, answering questions about milestones of the digital revolution. Using informational sheets, students explore key concepts such as chips, circuits, the internet, and artificial intelligence, developing an understanding of how technology has evolved and how AI learns and generates patterns from data.

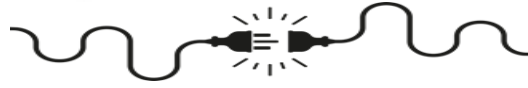


Aims

1. Identify and understand the main milestones of the digital revolution and their impact on current technology through an interactive and collaborative activity.
2. Introduce the basic concepts of artificial intelligence, its functioning, and ethical principles of use, fostering critical thinking about its role in society.

Key Competencies to Develop:

- Digital Competence
- Learning to Learn Competence



How do we do it?

Session 1: Research and Information Gathering

1. Objective:

- Research milestones of the digital revolution using physical resources and organise the information following a worksheet model.

2. Development:

- **Activity Presentation:** Explain the key milestones they will investigate (chip, electronic circuit, programs, etc.).
- **Distribution of Worksheet Models:** Provide a model indicating the data to be researched, divided into three levels of depth:
 - **Level 1:** Brief historical context of the milestone.
 - **Level 2:** Notable inventions of the era.
 - **Level 3:** Curiosities about the invention or its impact.
- **Guided Group Research:** Each group searches for information in available books or encyclopaedias and fills out their worksheets, collaborating in data collection.

3. Closure:

- Sharing findings, where each group presents what they found and errors are corrected to ensure information accuracy.

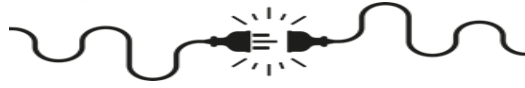
Session 2: Creation of Worksheets and Chatbot Simulation

1. Objective:

- Create informational worksheets in groups and practice the question-and-answer dynamic in chatbot format.

2. Development:

- **Creation of Worksheets:** In groups, students complete the worksheets with the three levels of responses and options for each level:
 - **Level 1:** Brief historical context, with 2-4 response options.
 - **Level 2:** Inventions of the era, with 2-4 options.
 - **Level 3:** Curiosities, with 2-4 options.
- **Chatbot Practice:** Groups take turns simulating the chatbot function, while the other groups ask questions based on the worksheets.



3. Closure:

- Reflection on the activity, discussing the importance of teamwork and collaborative learning.



Suggestions

Extension: Chatbot in the Playground

As an extension, groups can act as chatbots for other classes, answering questions from their peers in the playground and showing the options for each level. This reinforces their knowledge and allows them to share what they have learned in a broader context.



Resources

- **Human:** Teacher.
- **Material:** Worksheets, textbooks, or encyclopaedias.



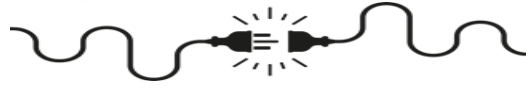
Space: Classroom, playground, or outdoor area.

Type of activity: Research, cooperative work.



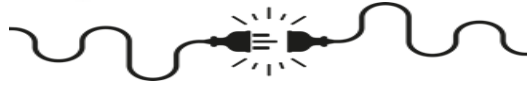
Worksheet Model: Time Chatbots





What have we learned?

Assessment Criteria	4 Excellent	3 Very good	2 Satisfactory	1 Needs improvement
Quality of Research	The research is complete, with detailed and well-organised information showing a deep understanding.	The research is mostly complete, with clear and well-organized information that shows a solid understanding of the topic.	The research is basic, with some relevant but not detailed data.	No relevant or sufficient information is presented.
Teamwork Collaboration	Proactively participates, fosters collaboration, and contributes to team cohesion.	Actively participates and collaborates positively with others.	Limited participation, contributing little to the group dynamic.	Does not participate or negatively affects the team.
Presentation of Worksheets	The worksheets are complete, clear, and organised, with excellent visual presentation.	The worksheets are complete, with acceptable organisation and presentation.	The worksheets are incomplete or have presentation errors.	Does not present worksheets or they are incomplete and disorganised.
Execution of Chatbot Role	Executes the role excellently, with precise, clear, and realistic responses, always maintaining the chatbot tone.	Executes the role adequately, with clear and mostly accurate responses.	Performs the role basically, but with some inaccuracies.	Does not fulfil the assigned role or constantly deviates from the topic.



Computational Thinking



Logic (prediction and analysis): thinking to make predictions, solve problems and make decisions based on available information.

Algorithms (steps and rules): is a step-by-step process that solves a problem or completes a task.

Decomposition (breaking down into smaller parts): breaking down problems into smaller and more manageable parts, which are easier to understand and solve.

Patterns (recognise and use similarities): recognising similarities or patterns in problems or data, which means come up with solutions quickly and effectively.



More information

[Worksheet Model: Time Chatbots](#)



Worksheet Model: Time Chatbots