

DISTAID - Distance education through Investigation of Services, Tools, Assessment, Interactions, and Design.

Lesson's Plan

Teacher's name(s)	Isabel Lopes, Luzia Novais e Susana Martins
Subject(s)	Maths and Physics and Chemistry (7 th grade)
Activity duration	3 periods of 90 minutes
Target audience	Students between 11 and 12 years old
Hybrid model	Rotation lab model
Learning goals	<ul style="list-style-type: none"> • Search information; • Select information; • Develop critical thoughts; • Demonstrate autonomy; • Cooperate with others; • Share knowledge; • Understand the scientific notation's utility to represent daily distances, such as the universe distance.
Contents	<p>Maths: scientific notation; solving problems.</p> <p>Physics and Chemistry: universe distances; solving problems.</p>
Activity resources	<p>Google Classroom</p> <p>Video provide by the theme</p> <p>Tablets and/or computers</p> <p>Internet</p> <p>Smartphones</p> <p>Other material available in the library (books, magazines, ...)</p>

Places				
Place	Activity	Duration	Student's duty	Teacher's duty
House (individually)	<ul style="list-style-type: none"> - Watch the video "Secret Worlds: The Universe Within": https://www.youtube.com/watch?v=FntYEQHq8d0 - Fill a quizz on Google Forms 	20 minutes	<ul style="list-style-type: none"> - Watch the video - Answer the quizz 	<ul style="list-style-type: none"> - Show the task each group has to do in Classroom (Maths/ Physics and Chemistry); - Clarify possible doubts, via Classroom/Meet.
School library (class divided into groups)	<p>Task:</p> <ul style="list-style-type: none"> - Search about the theme "Distances on the daylife/cientific notation" (very big amounts on many contexts, such as in the universe); - Do a small work, following the indications of a script that will be available in the Maths and Physics and Chemistry Classroom; 	90 minutes	<ul style="list-style-type: none"> - Question the indications, if necessary; - Ask doubts; - Submit the work in Google Forms 	<ul style="list-style-type: none"> - Expose the task's indications to do in Google Classroom; - Be present in the works' realization in the beginning; - Clarify doubts, via Classroom/Meet.
Maths's classroom (class divided into groups)	<ul style="list-style-type: none"> - Apresentation of the work done in the school library about the theme: "Distances on the daylife"; - "Cientific notation"- Concept dedution for writing big numbers; 	90 minutes	<ul style="list-style-type: none"> - Present the work/ see the other presentations; 	<ul style="list-style-type: none"> - Follow the works' apresentation; - Ask questions if needed; -Clarify doubts.
Physics and Chemistry's classroom (class divided into groups)	<ul style="list-style-type: none"> - Apresentation of the work done in the school library about the theme: "Distances on the daylife"; 	90 minutes	<ul style="list-style-type: none"> - Present the work/ see the other presentations; 	<ul style="list-style-type: none"> - Follow the works' apresentation; - Ask questions if needed; -Clarify doubts.



Activity's evaluation

(What can be done to verify if the activities' goals were accomplished)

Direct observation;
Quiz on Google Forms;
Review of the submitted works in Classroom;
Oral presentation about the Group' works