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# Solar System – Sizes and Distances

## Earth Science Festival



Dissamination journey on Earth Science for families.

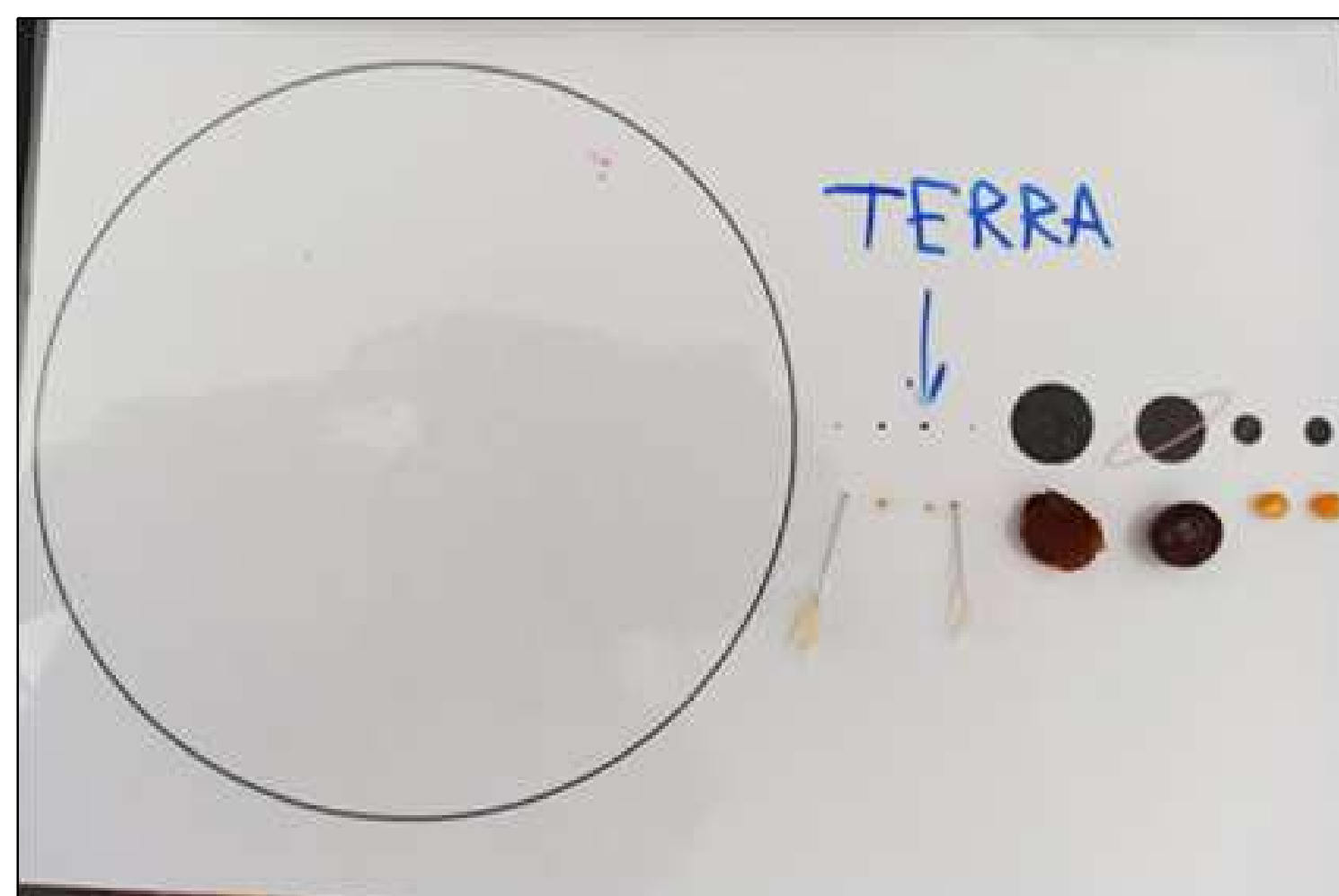
About two hundred people were enjoyed a wonderful day in which Earth sciences were brought closer to the families. Everybody, no matter their age, could take part in the activities.

The activities were led by PhD students from the UAB (geology).

## Solar System Sizes and Distances



This activity is based on the « How big is our Solar System » activity, published and developed by the Erasmus+ STIM project.



1. We pointed at the difference between what one learns and it's real meaning.
2. We take a walk through each planet with equivalent objects. As it was 500m we took the opportunity to explain new concepts adapting the level to the attendees (ex. planet compositions).

## Approximate equivalences

	Average Orbit Distance (Mkm)	Steps
Mercury	58	5.8
Venus	108	10.8
Earth	150	15
Mars	228	23
Jupiter	778	78
Saturn	1426	150
Uranus	2870	280
Neptune	4498	450
	Equatorial circumference (km)	Equivalent objects
Mercury	15329	A sewing pin
Venus	38024	Quinoa
Earth	40030	Quinoa
Mars	21297	A sewing pin
Jupiter	439264	Sultan Raisin
Saturn	365882	Chocolate-covered peanuts
Uranus	159354	Corn Kernel
Neptune	154705	Corn Kernel
Sun	4370006	Inflated balloon

