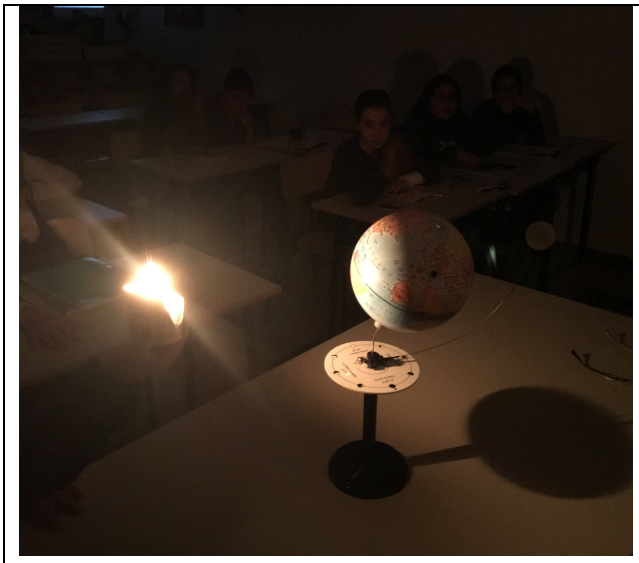
Title 	Shadows, half light and darkness in the universe
subjects	Science, technology, Engineering, Art, Maths
class 	CLASS FIRST SECONDARY SCHOOL
duration	16 hours
materials	LIGHT POINTS, BOXES, GLOBE, CANDLES
objectives	Students study shadows in the universe through doing learning and model-based learning. Science: matter, solar system and sunlight, energy and electricity Technoly: use different software Engineering: manage and build different tools Art: different types of artistic products Mathematics: goemetric forms, measurement, Cartesian coordinate system
TOPICS:	- Light sources and illuminated objects; - The light propagates in a straight line;

	- Speed of light and distances; - Shadows, half light and darkness and point and extended light sources; - Eclipse of sun and moon
assessment 	Students know light, shadows and eclipses use different materials

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