TITLE	SUNDIAL
	Sun clocks, the apparent motion of the sun and its shadow
subjects	science, technology, engineering, art, math
Class	class V Primary school
Hours	20
Materials	modelling plasticine, glue, pencils, colored
	pencils, acrylic paints, brushes, audio
	visual material, tablets, compass, recovery
	materials, plasters, wooden planks,
Objectivies	Ask yourself and ask questions
	about phenomena and things;
	formulating hypotheses, designing
	experiments and / or explorations,
	verifying conclusions
	 Acquire a survey method based on
	observation of facts, recording of
	phenomena and critical comparison
	of data
	 Identify scientific, mathematical and artistic sciences and
	artistic - expressive concepts and phenomena in the observation of
	concrete experiences
	 Use technology to investigate,
	simulate and build models
Activities	1. Study of one's own shadow and the
N STEWAS US ONBRY	shadow of objects. How to change with the passing of hours:
L CURS	observations and hypotheses
	2. The apparent movement of the sun
	and the real movements of the
	earth: simulation in the classroom of
	the motions of Revolution and
	Rotation
	3. Search for time measurement
	methods that exploit the shadow of
STE for such	the sun: from the sundial to the
	sundials.
	4. Construction of a portable sundial:
	how it is made and how it works.
	The geographical coordinates and
	the cardinal points, the circumference and the circle
	5. Orientation and measurement of
	time through observation of the

	 position of the sun and its shadow through the sundial and the compass. 6. Development of a power point for reconstruction and exposure of the activity
Assessment	Children know how to orient themselves by observing the shadow of the sun; they know how to build and use a sundial; read a compass; they know how to use the web network to look for information; they know how to use the power point to reconstruct and summarize an experience.