



Seeds

Title	RAINBOW MAKER
Description	<p>The activity consists of the observation of different phenomena:</p> <ul style="list-style-type: none"> • the rainbow that fills the room • the crystal hanging that breaks up the light • the engine and its mechanisms activated thanks to the solar energy <p>This object could become a starting point, a prompt for a deeper informative journey on solar energy, but also on energy transformations.</p>
Materials and Time needed	<ul style="list-style-type: none"> • An instrument which makes rainbow (included) • A bright sunny day. • A well-cleaned window glass piece.
Instructions	<ul style="list-style-type: none"> • Observe the Rainbow maker carefully: it is made up of a solar cell, which must be addressed to the sun, a small colorful engine which makes rotate the crystal prism. • Hang the suction cap from the window lightened by the sun (pay attention, sometimes it breaks off!) • Observe the room in which one is • Observe the mechanisms of the engine activated thanks to the energy produced by the solar cell.
In-depth study	<p>It is also possible to think about carrying on an informative journey on light and color, starting from the observation of the shaping of rainbows.</p> <p>Following J. Newton's discoveries and experiments and using a glass prism (dispersive element) it is possible to study the solar light (white light) which breaks up into the so-called visible spectrum, where colors gradually change from red to orange, from orange to yellow, then to green, to blue up to indigo and violet.</p>