



Seeds

<b>Title</b>	<b>SOLAR ENERGY</b>
<b>Description</b>	<p>Different techniques have been developed over the years to exploit solar energy for two main reasons: a shortage of fossil fuel (non -renewable energy) and an increased awareness of environmental problems. The development of this technology has been rather difficult because each solution found from time to time never had a return satisfactory enough for a massive use.</p> <p>Based on the technological uses of solar energy we can classify as follow: solar thermal power system - mainly linked to the production of hot water solar photovoltaic system - aimed to the production of electricity (solar panels)</p> <p>In the kit you can find two different tools which both enable use of solar energy: the photovoltaic cell and the hot water heater. Some other tools can be found : the Radiometer and the Rainbow Maker to complete the testing activity.</p>
<b>Materials and Time needed</b>	<p>Concerning solar energy then, four different tools are provided: RADIOMETER RAINBOW MAKER PHOTOVOLTAIC PANEL SOLAR WATER HEATER</p> <p>The materials from the kit come along with descriptive sheets which we refer to for single use.</p> <p>As teaching strategy for the class you could create four different groups giving each group one of the tools and the related sheet to carry out the activity following the instructions. The students themselves could also suggest a different procedure . A fifth group could be created introducing the experiment on the greenhouse effect. The groups will have one hour to carry out their trials and then will exchange tools and goals. At the end each student will have tried all the possible tests and will be able to write a summary of his\her experience possibly enriched with personal readings.</p> <p>The recommended procededure is ,therefore, the following: The teacher introduces the topic (one hour) Workshop activities ( four\five hours) Presentation of the personal papers and follow-up to share opinions (recommended but up to the teacher)</p>

**In-depth study**

Further information can be found on the web: for example  
<http://www.enea.it/it/comunicazione/le-parole-dellenergia/radiazione-solare/le-tecnologie-di-utilizzazione-dell2019energia-solare>