

# An Experimental Study of Effective Sunlight and Solar Radiation on House in High School Home Economics Class

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## Abstract

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This experimental study aims at creating better environments on house with the help of sunlight effect. Conducted in a high school home economics class, the study used a flashlight to represent sunlight, a milk carton as a house, and a plastic hemisphere (widely used in science classes) to show the solar path. Moving the flashlight along the orbit of the hemisphere showed the daily movement of the sun and the seasonal differences in its altitude. Observations were recorded in worksheets. This study was conducted in four classes in one school (11th grade in secondary school). The resulting classroom atmosphere and impressions from this experiment as described in the worksheets were analyzed. This lesson enabled the students to understand the ways in which sunlight enters through the windows of a house.

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*Key words;* house, ray of sunlight, an experimental study, high-school home economics