

S.T.E.A.M.

TITLE: THE MERIDIAN

THEME: SCIENCE, ENGINEERING

GRADES: 1st secondary school

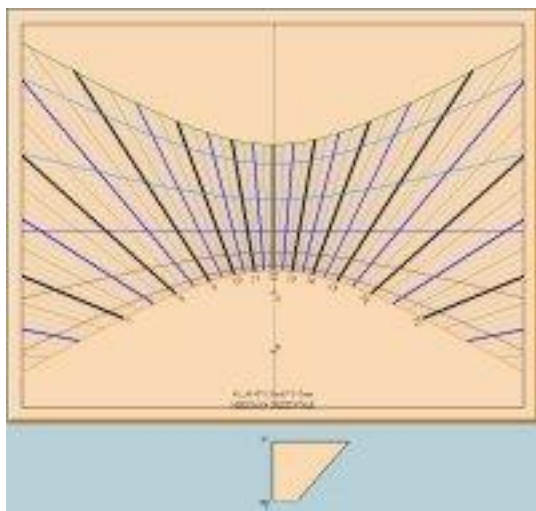
DURATION: Two hours plus observation

MATERIALS: Sticks; chalks; cardstock; copies of meridians; time correction table.

OBJECTIVES: Calculate the time with the sunlight

DESCRIPTION: 1) In a sunny day, the kids start the activity orientating themselves. Then, they plant a stick into the soil and draw an east-west line. Every 15° they mark some line out. At the end of each line, the pupils write the hours from sunshine to sunset and determine what's the time in that moment.

2) On a cardstock glue the picture below, orientate it as before and compare the time registered in this activity with the time of the stick.



With the help of the time correction table, calculate the right hour.

EVALUATION: After this activity, the kids can orientate themselves and determine the time through the projection of the shadows.