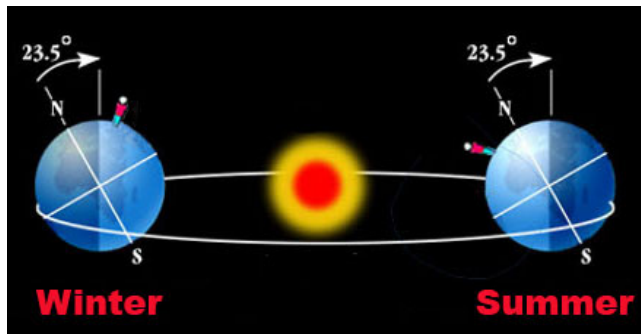


Heliodon Use



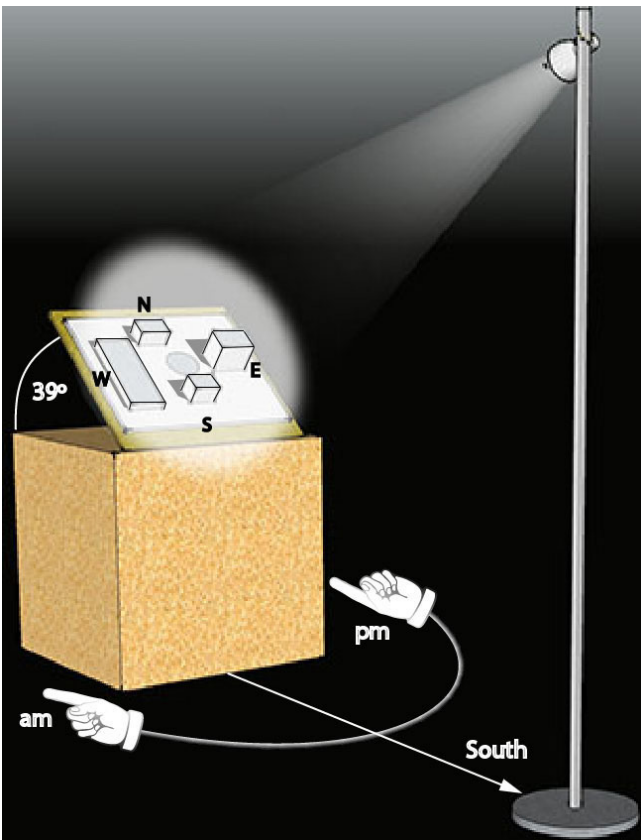
In the winter the UK is tilted away from the Sun, whilst in the summer it is tilted towards the Sun.

On the Heliodon this is represented by moving the light source down for the winter and up for the summer (equal to an angle of 23.5°).

The height of the sun in the sky is also effected by latitude, the Sun gets lower in the sky as you move North.



This is simulated on the Heliodon by tilting the model and platform to the latitude.



In the image on the left we see the light source set high for the summer Sun and the model tilted to 90° - 51° (Portsmouth's latitude).

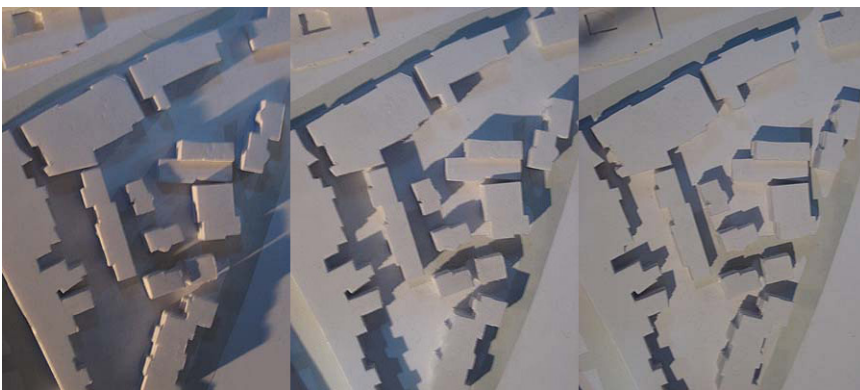
The model's southerly aspect then needs to be orientated to towards the light source.

This will show summer shadows at midday.

To show morning shadows the platform and model are turned clockwise to represent the Sun coming from an Easterly direction.

For the afternoon the platform is rotated anti-clockwise to show the Sun setting in the West.

The light is lowered to model other seasons, arriving at its lowest point on December 21st.



Winter

Spring and Autumn

Summer all at 5pm

