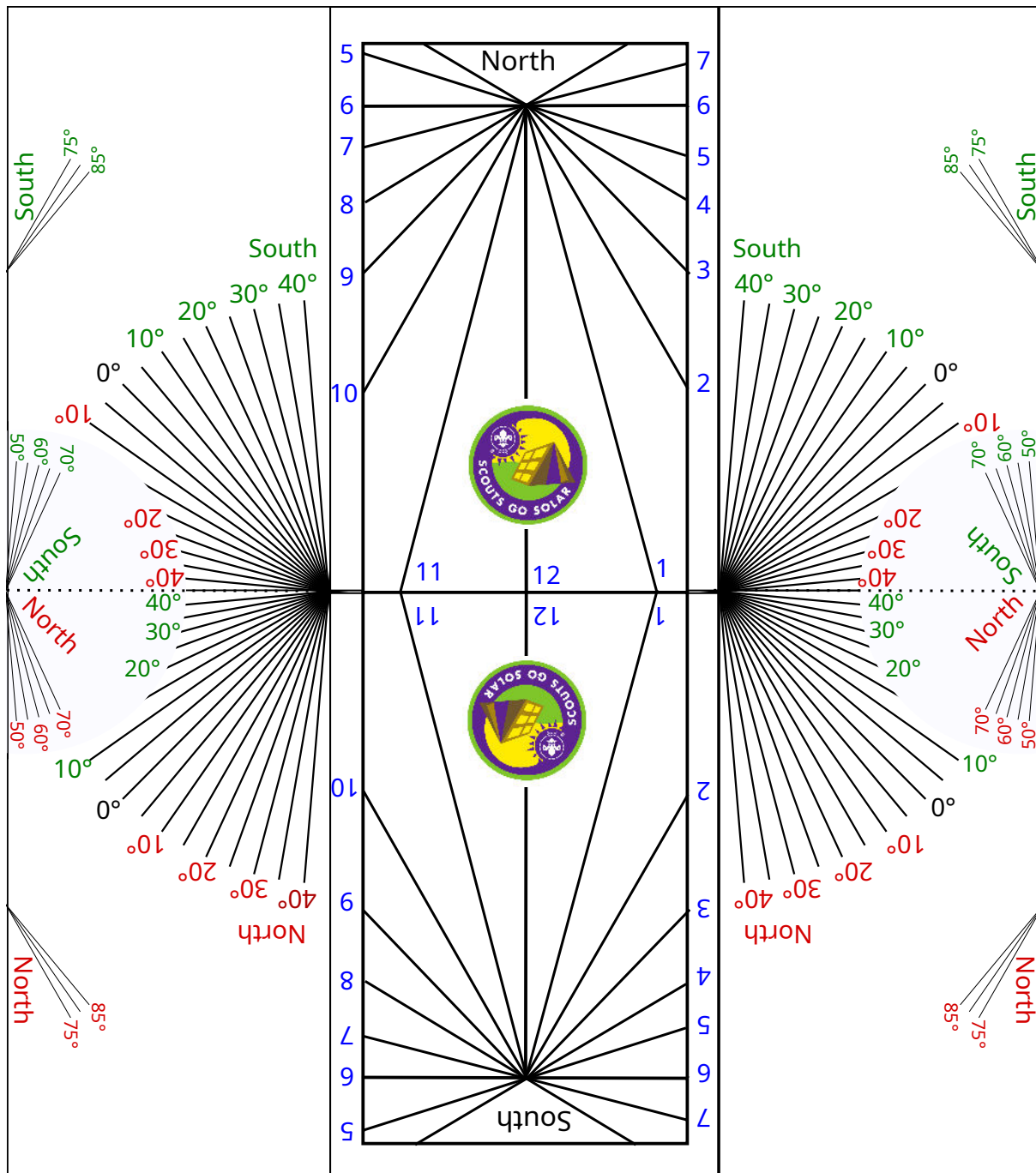




Scouts go Solar Diptych Sundial model

This Sundial was first designed by Dr. Alan Mills, Astronomy Group, Leicester University, UK. It was updated and redrawn by Anders Bergström and finally adapted to all latitudes by Dr. Michael Götz.

Please be cautious when handling sharp objects and tools!

Find more information here: <https://sdgs.scout.org/explore/activity-types>

- 1) Print or copy the Scouts go Solar Diptych Sundial model on paper. For sturdiness, consider pasting it on cardboard.
- 2) Carefully cut along the outer and pointed lines, following the instructions to create the sundial's shape
- 3) To customise the sundial to your location, find your latitude using an Atlas or online resources.
- 4) Mark lines on each side of the sundial's base corresponding to your latitude and hemisphere (from 0° to 45° North or South, you draw lines on all four side flips, from 45° upwards there are two lines to be drawn). Extend the lines to the border of the paper.
- 5) Fold the side flips downwards by 90°. All folds are easier to realise if bend against a metal ruler.
- 6) Fold the paper upwards along the horizontal central line by 90°.
- 7) Fold the paper downwards along the lines you drew corresponding to your latitude.
- 8) Correct all folds until they have an angle of 90°.
- 9) Create small holes where all the hour lines meet at the top and bottom of the sundial.
- 10) Tie a string through those holes. The shadow cast by the string will act as the sundial's pointer and tell the time. Install the string in a way that the sundial has a 90° bend in its centre.
- 11) We suggest to glue your sundial on this paper square (printed side facing down) which serves as base. Cut the excess length after glueing.
- 12) For the sundial to function, find a place where the pointer (the string) casts a shadow.

(Use the square above as base (printed side facing down))

