The Sundial Primer

Latitude: 45° N  ♣♣♣  5-minute intervals

Date Lines:
1, 6, 11, 16, 21, 26

Month:
January
February
March
April
May
June
July
August
September
October
November
December

Northern Hemisphere

NORTH

SOUTH

NORTH

SOUTH

WINTER

SUMMER

EAST

WEST

Noon Gap

GNOMON BASE
Glue to bottom of dial plate.

Latitude scale A.
Latitude scale B.

Glue to bottom of dial plate.

Bottom corner brackets A, B, C and D for box.
Fold and glue these narrow sides of the tabs at the centre of the north and south ends of the dial plate. DO NOT glue the part that extends beyond the plate. The tabs are used to help raise one end of the dial plate and hold the other end in the correct position.
<table>
<thead>
<tr>
<th>Place latitude scale A here.</th>
<th>Place latitude scale B here.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Splice A</td>
</tr>
<tr>
<td></td>
<td>Glue to back side of the</td>
</tr>
<tr>
<td></td>
<td>latitude scales A and B to</td>
</tr>
<tr>
<td></td>
<td>make one piece.</td>
</tr>
<tr>
<td>Glue splice A or B to the</td>
<td></td>
</tr>
<tr>
<td>back of the latitude scales</td>
<td></td>
</tr>
<tr>
<td>C and D to make one piece.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Place latitude scale C</td>
</tr>
<tr>
<td></td>
<td>Place latitude scale D</td>
</tr>
<tr>
<td></td>
<td>here.</td>
</tr>
<tr>
<td></td>
<td>Splice B</td>
</tr>
<tr>
<td></td>
<td>Glue to back side of the</td>
</tr>
<tr>
<td></td>
<td>latitude scales C and D to</td>
</tr>
<tr>
<td></td>
<td>make one piece.</td>
</tr>
</tbody>
</table>

Cut along red lines.
Fold along green lines.
Label parts on the back as they are being cut out.
The Sundial Primer

Horizontal & Analemmatic Sundials
Latitude Range: 25° to 65° North

EAST

Splice C

Glue tab here.

Gnomon for analemmatic sundial.

Bottom rim of box.

Glue to bottom of blue tabs.
2 for each gnomon.

Corner Bracket
Cross Piece

Box A
Glue splice C here.
Glue on corner brackets A, B, C and D.

After making the gnomon for the analemmatic sundial to one of the 4 heights, glue the green and pink halves together. Weights can be glued to the blue tabs to stabilize it.

After making the triangular gnomon glue it on the horizontal sundial with the tallest end to the north.
The Sundial Primer

Horizontal & Analemmatic Sundials
Latitude Range: 25° to 65° North

West

Box C
Glue splice D here.

Glue tab here.

Corner Bracket
Cross Piece

Bottom rim of box.

Splice D
Glue on corner brackets A, B, C and D. These templates will make a triangular tube and can be cut to various sizes. Use it to reinforce the bottom of the dial plate if you have no other method. Attach after the dial plate is mounted to the latitude scales.
Glue to bottom of dial plate.

Brackets E, F, G and H for vertical corners of box. Fold and glue on the outside.

Glue tabs one at a time to form curve.

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Horizontal & Analemmatic Sundials
Latitude Range: 25° to 65° North

NORTH
Glue to bottom of dial plate.

Glue tabs one at a time to form curve.

Horizontal & Analemmatic Sundials

SOUTH

The Sundial Primer

Latitude Range: 25° to 65° South

 brackets E, F, G and H for vertical corners of box. Fold and glue on the outside.
Glue tab to outside of east side.

Glue tab to outside of west side.

Cross piece for bottom of box.

Bottom rim of box.

Corner Bracket

Corner Bracket

Horizontal & Analemmatic Sundials
Latitude Range: 25° to 65° North

The Sundial Primer
SOUTH

Glue tab to outside of west side.

Glue tab to outside of east side.

This template will make a triangular tube and can be cut to various sizes. Use it to reinforce the bottom of the dial plate if you have no other method. Attach after the dial plate is mounted to the latitude scales.

Bottom rim of box.

Corner Bracket

Horizontal & Analemmatic Sundials

Latitude Range: 25° to 65° North

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You have no other method. Attach after the dial plate is mounted to the latitude scales.