

Part B: the Gnomon

**Sydney Observatory  
DIY Sundial**

Assembly

1. Cut out base and gnomon.
2. Cut out slots (**thick** parts of lines only), 1 on base, 2 on gnomon.
3. Fold gnomon so it sits on rectangles and triangle points up.
4. Slot base and gnomon together; rectangles underneath base and triangle sticking up above base. Tape if needed.

How to use

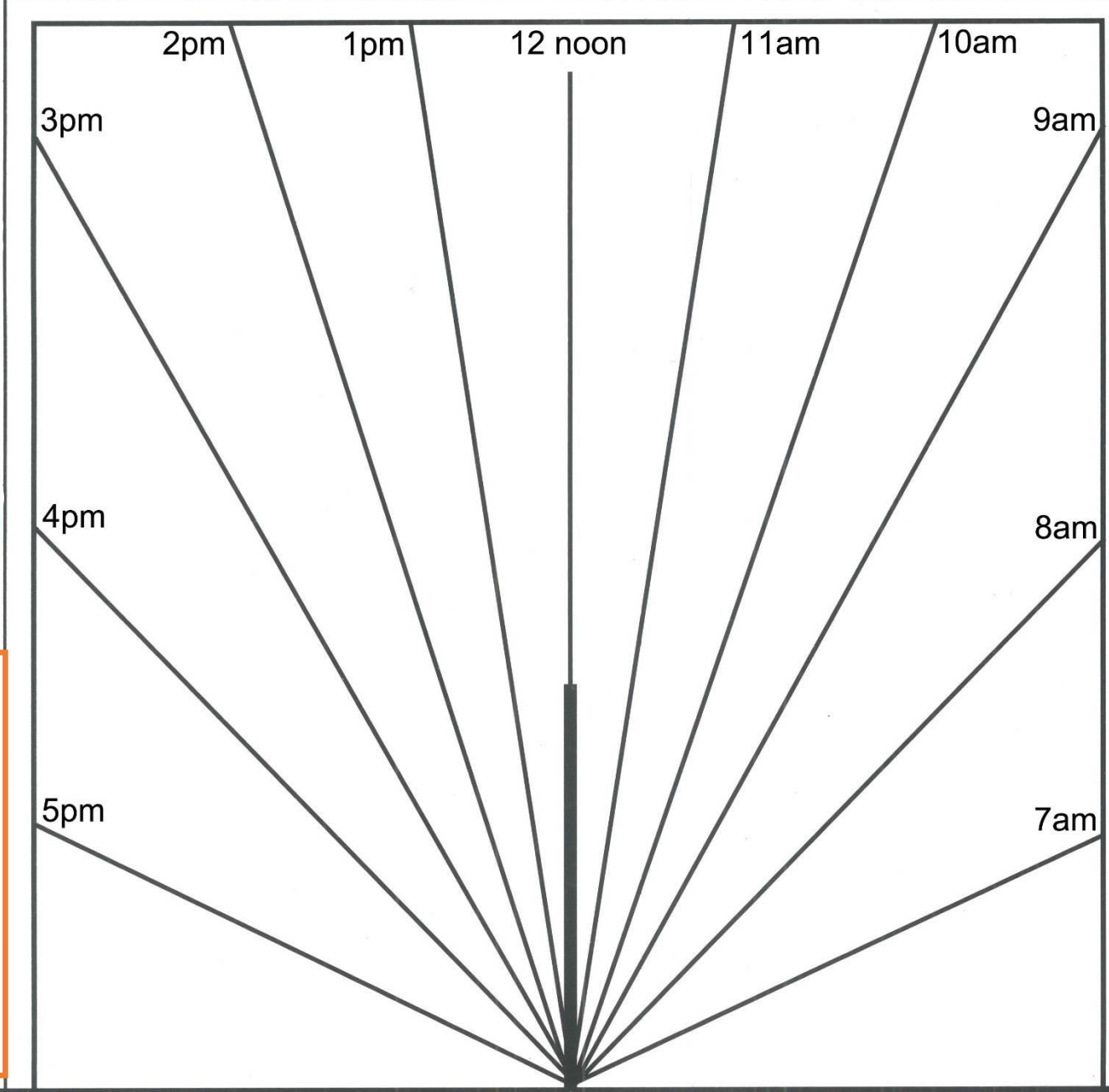
Place sundial on a flat surface outdoors in sunshine. Make sure the gnomon points directly south.

## DIY Sundial

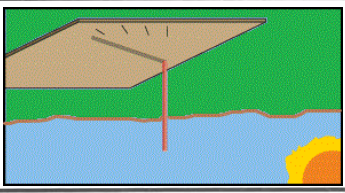
1 day = 360° spin of the Earth  
( 1 full rotation )  
= 24 hours



1 hour = 15° spin of  
the Earth

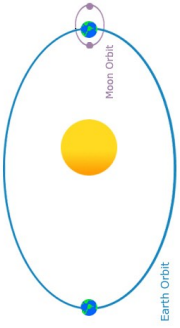


In daytime, measure time  
using the Sun & shadows



At night, measure time  
using the Moon & stars

1 orbit of the Moon  
= About 1 month



1 leap year =  
366 days

1 year = One orbit  
around the Sun  
= 365.25 days