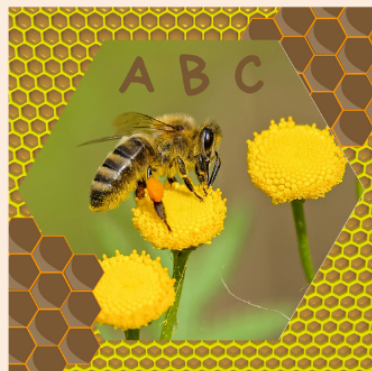




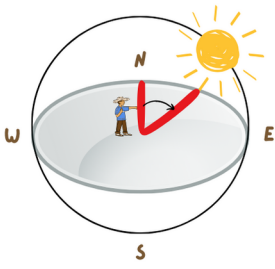
Instructions for the ABC stickers:

The stickers will fit AVERY Labels - code 936074, 99.1mm x 67.7mm Just load the paper into your printer and choose to print only page 2 of this document. You will be able to print 8 stickers per sheet. Each letter will fill the next sticker block so save your sheet for the next letter. Alternatively, you can print on normal paper, cut the sticker out and glue into your math journal.

I hope you enjoy using these resources with your family. I am happy for you to share these pages with others but please respect the creative copywrite and link back to jo.mathinnature.



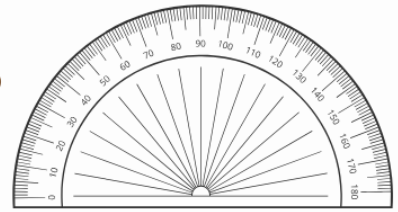
Azimuth



The Azimuth angle is the horizontal angle measured clockwise from North.

AZIMUTH

MEASURING ANGLES



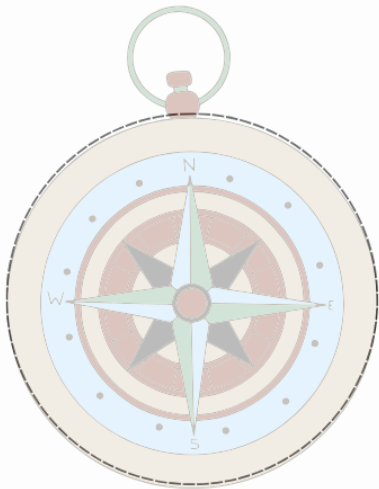
Instructions

Scientists measure the azimuth angle of the sun by using compass directions and angles.

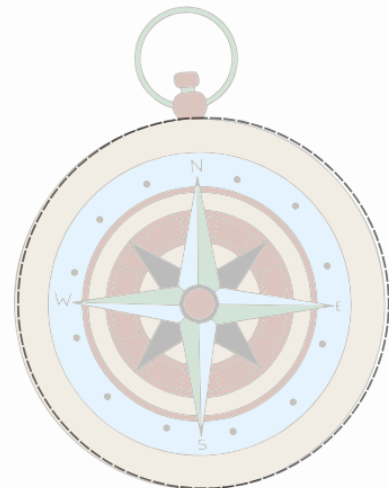
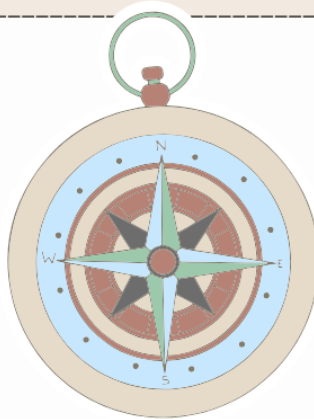
Label each of the compass circles below with North (0°), East (90°), South (180°) and West (270°)

Using a protractor mark the following angles on your circles 45° , 60° , 120° , choose your own angles for the last two circles.

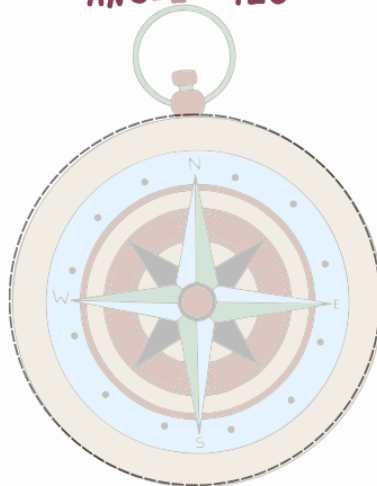
ANGLE = 45°



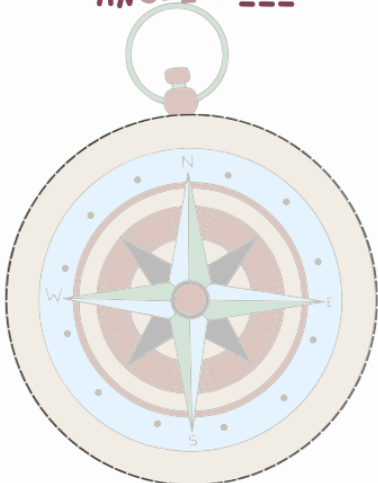
ANGLE = 60°



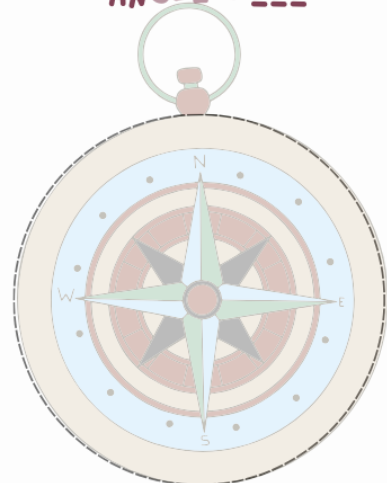
ANGLE = 120°



ANGLE = $---$



ANGLE = $---$



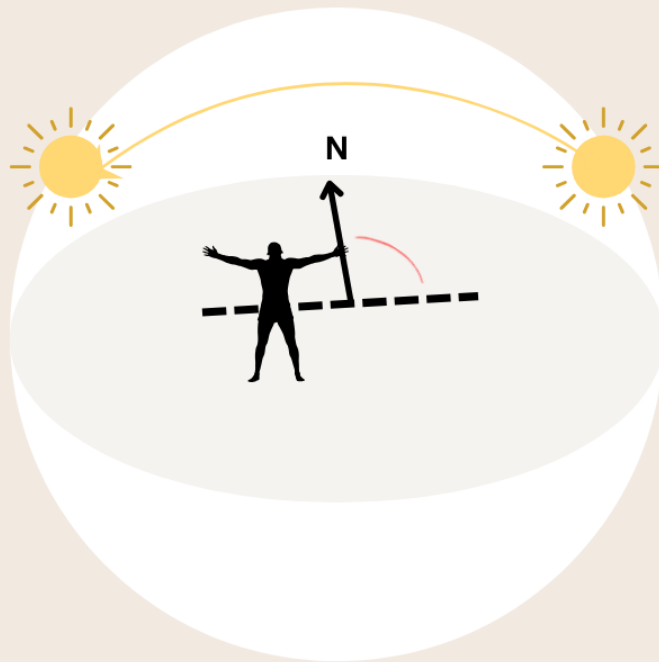
AZIMUTH

LET'S LEARN MORE

Choose a sunny day to take notice of where the sun rises and sets, and spend time during the day to notice where the sun is in the sky. Remember that looking directly at the sun will damage your eyes. Never stare directly at the sun!

We know that the sun rises in the east and sets in the west. At different times during the year the sun will be lower or higher in the sky. This is what causes the different seasons.

After you have watched the path of the sun go outside and stand with your arms outstretched the direction of the sun's path. Get someone to draw a line in the dirt, or on the ground in the direction of the sun's path. Next, using a compass find the direction of North. Draw a line on the ground, intersecting the sun's path line, pointing north. Use a protractor to measure the angle between these two lines. You now have a approximate AZIMUTH angle.



Alphabet is written in chalk, but azimuth is written in the sky
tethered to earth's gut
giving each man his bearing equally.

~Antoinette Brim-Bell~



MY NOTES ON 'AZIMUTH'

Watch this video,

[Intro to Solar Orientation](#)

take notes or write about what
you learnt.