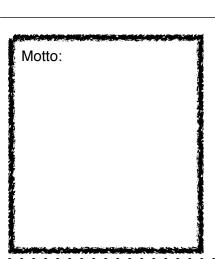
To complete the sundial assignment:

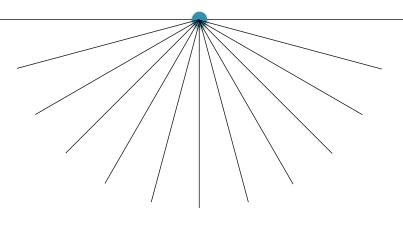
- __Assemble the sundial.
- __Label the hours on the sundial (including AM and PM)
- __Add a motto (a quotation about time.)
- Point the stick north and read the time.
- __Apply the three corrections to sundial time and find the standard time.
- __Photograph from top,side, bottom and outdoors. Turn in.

Push stick through this hole perpendicular to face

The ACE Academy Sundial Template

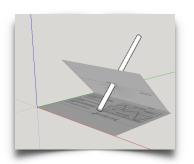
For extra credit: build out of permanent materials, larger.



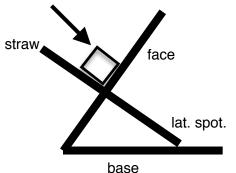


Spring/ Summer face (top)





Assembled it looks like this



Fold here

Assembly instructions.

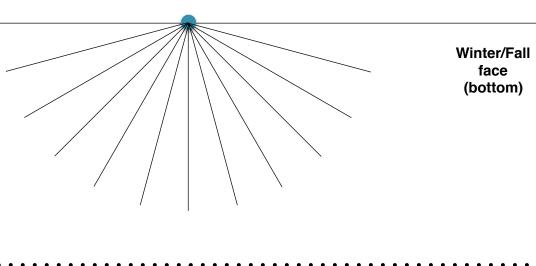
- 1.Glue the blank sides of the pages together so the hole and hour marks align.
- 2. Stick a straw through the face perpendicular to the top surface and attach to the base, at the point corresponding to your latitude.

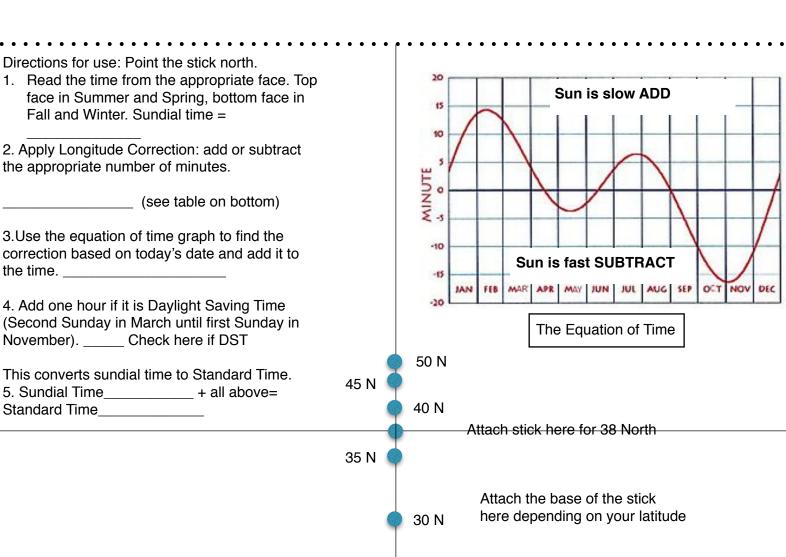
This is the bottom of the sundial. When it is in use you can't see this part. The latitude of these cities are all approximately 38 N.

City	Longitude (West)	Longitude diff	Correction (minutes)
Antioch	121.8058	1.8058	7.22
Pittsburg	121.8847	1.8847	7.54
Walnut Creek	122.0652	2.0652	8.26
Richmond	122.3477	2.3477	9.39
Discovery Bay	121.6002	1.6002	6.40

Your home town: Subtract your longitude from the longitude of the center of your time zone and multiply by 4. Pacific = 120 W, Mountain = 105 W, Central = 90 W and Eastern = 75 W

The stick must exit the face perpendicular to the face.





25 N