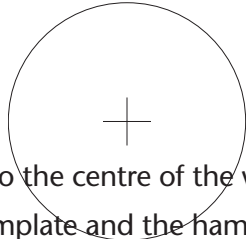
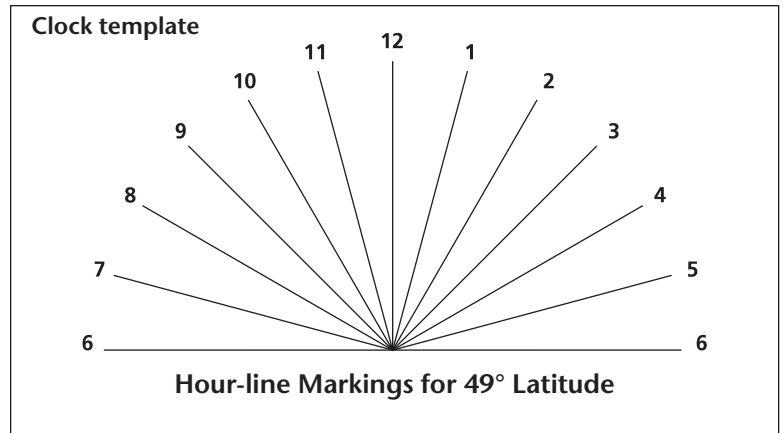


try this at home

Horizontal Sundial

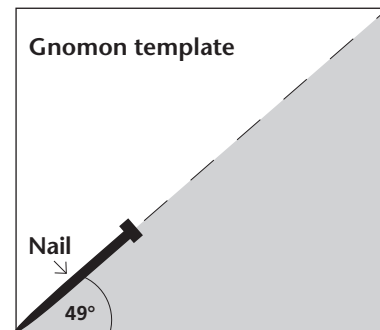
What you need

- Wooden checker
- 1" or 3/4" nail
- Pencil
- Roller ball pen
- Scissors
- Hammer
- Clock template
- Gnomon template



What to do

1. Hammer the nail into the centre of the wooden checker. Make sure you only go part way through.
2. Use the gnomon template and the hammer to bend the nail (gnomon) so it is angled at 49° to the surface of the checker.
3. Place your checker on the clock template and use a pencil to mark the hour lines. Remember to record 6 o'clock and 12 o'clock.
4. Go over your pencil marks with a roller ball pen.
5. To use your sundial, take it outside on a sunny day, put it on the ground and point the head of the gnomon due north. What happens when you point the gnomon to the north? Is the shadow telling you the correct time?



What's happening

The shadow of the gnomon is cast at the same point on your sundial at the same time each day. The hour lines tell you the correct time in Vancouver, BC, or anywhere else that has the latitude of 49°N . Remember that you must add one hour to the time on your sundial to agree with local "clock" time during daylight savings.