



Build a sundial

Name of the object and creator	The sundial by Logopsycom				
Recommended ages	8-12 years				
Thematic areas	Sciences	Technology	Engineering	Arts	Mathematics
combined (STEAM)	Ø				Ø
Materials needed	 Scissor Cardboard A set square A plate or a compass 1 wooden skewer A marker A compass or a compass app 				
Outline of the	Creation of the sundial base				
steps	2. Marking hours of sunshine				
References	 3 Ways to Make a Sundial. (2023). WikiHow. https://www.wikihow.com/Make-a-Sundial La Fondation La main à la pâte. (s. d.). Le cadran solaire. Consulté 25 avril 2023, à l'adresse https://fondation-lamap.org/documentation-scientifique/le-cadran-solaire 				





STEP BY STEP: How to build a sundial

Step 1: Creation of the sundial base

Estimated time: 20 minutes

• Gather the materials.



• Use a plate or compass to draw a circle on the cardboard.



 Cut out the cardboard circle and write the number 12 on the edge of the circle.







• Find the centre of the circle by drawing two lines and their medians (on the back of the cardboard).



• Drew a line from the number "12" and the centre of the circle.



• Pierce a hole in the middle with the skewer stick.







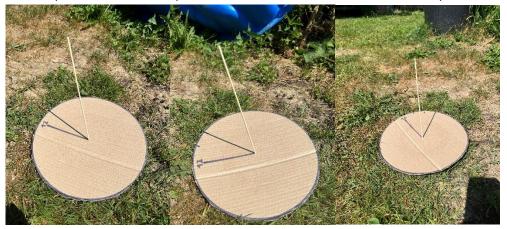
Step 2: Marking hours of sunshine

Estimated time: all day

- Go outside just before 12 noon and find somewhere that stays sunny all day. Place your sundial on a flat surface and place an object on it if it's windy.
- Put your compass on the ground and determine where North is. Tilt the skewer towards the North if you are in the Northern Hemisphere and towards the South if you are in the Southern Hemisphere.



- When it's noon, align the shadow of the wooden spike with the line you've drawn.
- Set an alarm a few minutes before each hour on the dot to go and look at your sundial and place a mark at each hour of the day.



• At the end of the day, you'll get a dial showing the hours of sunshine.



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