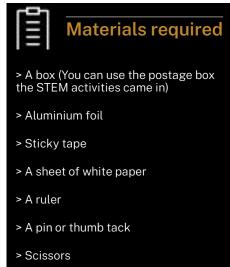


## MEASURING THE SIZE OF THE SUN





## Instructions:

- 1. Cut a 2x2 cm square out of the centre of one of the short sides of the box. Place the aluminium foil over the cut-out and tape it down.
- 2. Use the pin or needle to pierce the foil.
- 3. Line the inside of the opposite end of the box with the white paper.
- 4. Measure the length of the box, from the hole to the sheet of paper.
- 5. Point the foil-covered front end towards the sun. Do not look directly at the sun!
- 6. Use a ruler to measure the image of the sun on the piece of paper, using the same units you used to measure the length of the box.
- 7. Diameter of the sun = size of image / length of box \* 149,600,000 km.

You can even repeat this with the moon! Use the same box (steps 1-4), then:

- 1. Point the foil-covered front end towards the full moon.
- 2. Use a ruler to measure the image of the moon on the piece of paper.
- 3. Diameter of the moon = size of image / length of box \* 384,400 km
- 4. If you want to go further, change the size of the box and see what happens!

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