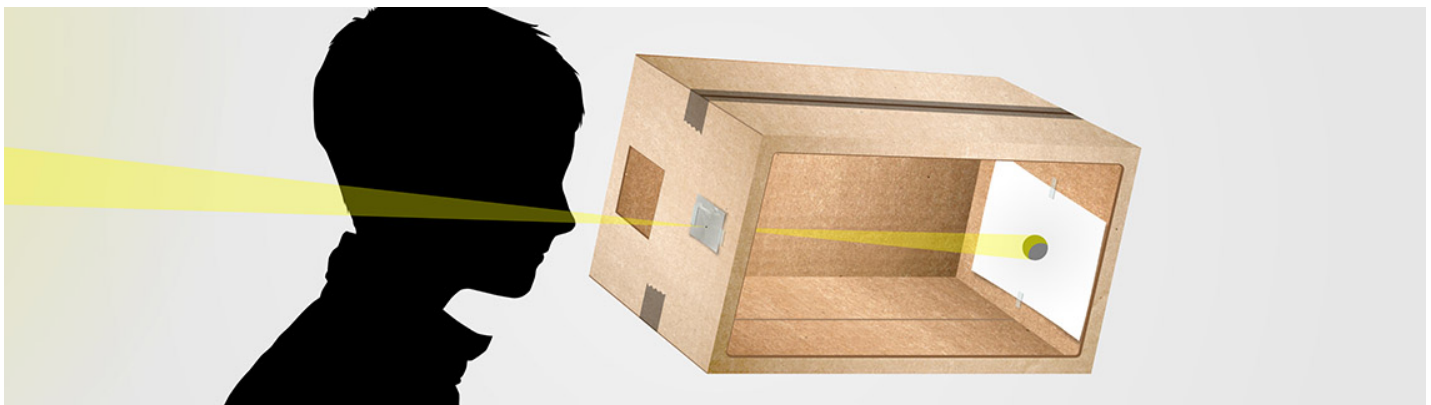




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# Build your own projector to watch solar eclipses safely



**!** **VERY IMPORTANT!** Looking directly at the Sun, without appropriate protection, can lead to serious problems such as partial or complete loss of eyesight.

[For more information](#)

During a solar eclipse, it is very important to protect your eyes. For hundreds of years, astronomers have used different methods to observe the Sun safely. One of them, the eclipse projector, allows you to view a small image of the Sun through a closed box. You will see the Moon taking "bites" out of the Sun!

# You will need

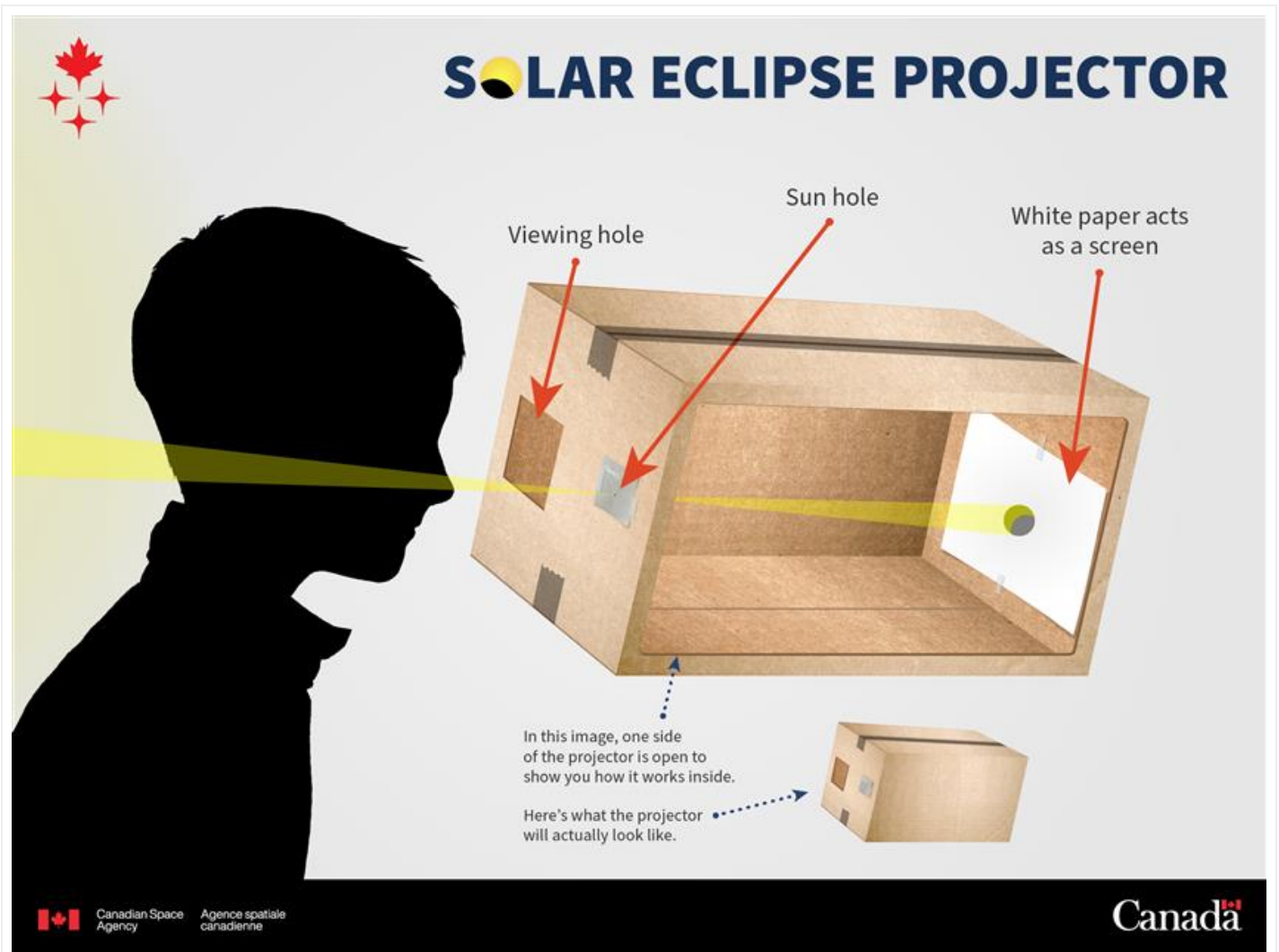
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- ✓ An empty cardboard box (the longer it is, the larger the image of the Sun)
- ✓ White paper
- ✓ Scissors
- ✓ Aluminum foil
- ✓ A pin
- ✓ Tape

# How to build your projector

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1. Open the box and, using tape, cover one of the inner sides with white paper.
2. On the opposite side of the white paper, cut two holes side by side and at least 10 cm apart (one for the Sun, the other to look in).
3. Cover the Sun hole with aluminum foil and tape it in place.
4. Grab your pin and poke a tiny hole in the aluminum foil.
5. Seal the box tightly.
6. Decorate the outside of your new projector to make it your own!  
(optional)



### Text version

How to build your own eclipse projector. (Credit: [CSA \(Canadian Space Agency\)](#))

## How to use your projector

1. Turn your back to the Sun.
2. Look through the eye hole and try to position yourself so that you see a projection of the Sun on the white paper.
3. When the Moon starts going over the Sun, you will see its shadow slowly covering the Sun.

Credit: [NASA](#)

**Date modified:**

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