

04  
08  
'24



© Ken Yan Photography 2023

# Total Solar Eclipse

## Once in a lifetime event!

**Monday, April 8, 2024**

Times given are for viewing  
from McMaster University:

Start time ..... 2:03 pm  
Totality begins ..... 3:18 pm  
End time ..... 4:31 pm

Duration: 2 hours + 27 minutes  
Totality: 1 minute + 50 seconds

Visible from Haldimand, Norfolk,  
Six Nations, Hamilton, Niagara  
and Burlington.

To learn more visit:  
[planetarium.physics.  
mcmaster.ca/2024-  
eclipse/](https://planetarium.physics.mcmaster.ca/2024-eclipse/)

**BRIGHTER  
WORLD**

**SCIENCE**  
Department of  
Physics & Astronomy



04  
08  
'24



© Ken Yan Photography 2023

# How to Enjoy a Solar Eclipse Safely

A solar eclipse occurs when the moon partially or totally covers the sun. It is a fascinating event, but it is important to guard against damage to your eyes. Be sure to follow these options for safe viewing to have an enjoyable and safe eclipse experience.

## Safety First

Ensure your eyes are protected at all times by using approved solar eclipse viewers that meet international standard **ISO 12312-2** for safe viewing. The solar viewing glasses provided by McMaster University meet these standards. Make sure that the glasses are not damaged or scratched before use. Sunglasses, even those with a very dark tint, are NOT sufficient protection.

## Don't Get Burned!

Staring at the sun without protection, may cause damage to your retina (the tissue at the back of your eye) called "solar retinopathy." This damage can occur without any sensation of pain. The injury can be temporary or permanent.

## Watch Online

Watch an online livestream of the event from a verified source. Alternatively, check out a recording of the eclipse after it has happened!

## Go Indirect - Project!

If you can't find eclipse viewers, make a pinhole projector to watch the eclipse. It's important to only watch the screen, not the sun. Never look at the sun through the pinhole.

For more information about the April 08, 2024 Total Solar Eclipse, visit: [planetarium.physics.mcmaster.ca/2024-eclipse/](https://planetarium.physics.mcmaster.ca/2024-eclipse/)

**BRIGHTER  
WORLD**

**SCIENCE**  
Department of  
Physics & Astronomy

**McMaster  
University** 

04  
08  
'24



© Ken Yan Photography 2023

# Total Solar Eclipse

## Once in a lifetime event!

**Monday, April 8, 2024**

Times given are for viewing  
from McMaster University:

Start time ..... 2:03 pm  
Totality begins ..... 3:18 pm  
End time ..... 4:31 pm

Duration: 2 hours + 27 minutes  
Totality: 1 minute + 50 seconds

Visible from Haldimand, Norfolk,  
Six Nations, Hamilton, Niagara  
and Burlington.

To learn more visit:  
[planetarium.physics.  
mcmaster.ca/2024-  
eclipse/](https://planetarium.physics.mcmaster.ca/2024-eclipse/)



**BRIGHTER  
WORLD**

**SCIENCE**  
Department of  
Physics & Astronomy





© Ken Yan Photography 2023

# How to Enjoy a Solar Eclipse Safely

A solar eclipse occurs when the moon partially or totally covers the sun. It is a fascinating event, but it is important to guard against damage to your eyes. Be sure to follow these options for safe viewing to have an enjoyable and safe eclipse experience.

## Safety First

Ensure your eyes are protected at all times by using approved solar eclipse viewers that meet international standard **ISO 12312-2** for safe viewing. The solar viewing glasses provided by McMaster University meet these standards. Make sure that the glasses are not damaged or scratched before use. Sunglasses, even those with a very dark tint, are NOT sufficient protection.

## Don't Get Burned!

Staring at the sun without protection, may cause damage to your retina (the tissue at the back of your eye) called "solar retinopathy." This damage can occur without any sensation of pain. The injury can be temporary or permanent.

## Go Indirect – Project!

If you can't find eclipse viewers, make a pinhole projector to watch the eclipse. It's important to only watch the screen, not the sun. Never look at the sun through the pinhole.

## Watch Online

Watch an online livestream of the event from a verified source. Alternatively, check out a recording of the eclipse after it has happened!

For more information about the April 08, 2024 Total Solar Eclipse, visit: [planetarium.physics.mcmaster.ca/2024-eclipse/](https://planetarium.physics.mcmaster.ca/2024-eclipse/)

**BRIGHTER  
WORLD**



**SCIENCE**  
Department of  
Physics & Astronomy

**McMaster  
University** 