



# Experience a Solar Eclipse



## WHAT IS A SOLAR ECLIPSE?

A solar eclipse happens when the Moon moves between the Sun and Earth, casting a shadow on Earth, fully or partially blocking the Sun's light in some areas. There are different types of solar eclipses.

### Total Solar Eclipse

For a total eclipse to take place, the Sun, Moon, and Earth must be in a direct line. The people who see the total eclipse are in the center of the Moon's shadow when it hits Earth. The sky will become very dark, as if it were night. Weather permitting, people in the path of a total solar eclipse can see the Sun's corona, the outer atmosphere of the Sun. A total solar eclipse is the only type of solar eclipse where viewers can watch without their eclipse glasses – and they can only remove them when the Moon is completely blocking the Sun.

### Annular Solar Eclipse

An annular eclipse happens when the Moon is lined up between the Sun and Earth, but at its farthest point from Earth. Because the Moon is farther away from Earth, it seems smaller. It does not block the entire view of the Sun. The Moon in front of the Sun will look like a dark disk on top of a larger, bright disk. This creates what looks like a ring around the Moon.

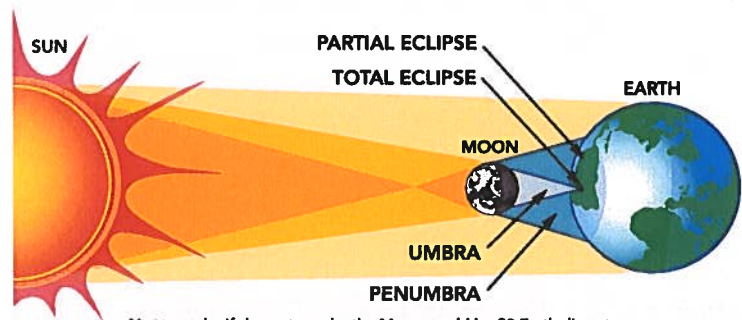
Known as a hybrid eclipse, sometimes an eclipse can shift between annular and total as the Moon's shadow moves across Earth's surface.

### Partial Solar Eclipse

This happens when the Sun, Moon and Earth are not exactly lined up. The Sun will appear to have a dark shadow on only part of its surface. During a total or annular solar eclipse, people outside the Moon's inner shadow see a partial solar eclipse.



## TOTAL SOLAR ECLIPSE



In this series of stills from 2013, the eclipse sequence runs from right to left. The center image shows totality; on either side are the 2nd contact (right) and 3rd contact (left) diamond rings that mark the beginning and end of totality respectively.



### WHERE TO WATCH

Find a nice, clear spot with a good view of the sky.



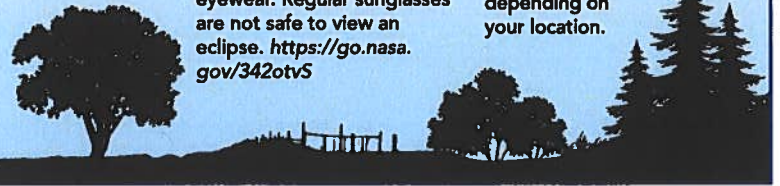
### HOW TO WATCH

You can see the Sun and an eclipse with special eclipse or solar viewing glasses. NEVER look directly at the Sun without appropriate eyewear. Regular sunglasses are not safe to view an eclipse. <https://go.nasa.gov/342otv5>



### HOW LONG WILL IT LAST

A total eclipse, when the Sun is completely blocked by the Moon, will last up to a few minutes, depending on your location.



This photo taken from the International Space Station shows the Moon's umbral, or inner, shadow during the total solar eclipse of March 29, 2006.



# SAFELY <sup>observing</sup> THE SUN

**WARNING!** Never look directly at the Sun without proper eye protection. You can seriously injure your eyes.



**YES!**  
View the eclipse with special eclipse glasses.

**NO!**  
Regular sunglasses are not safe to view the eclipse.

## BUILD A SOLAR VIEWER

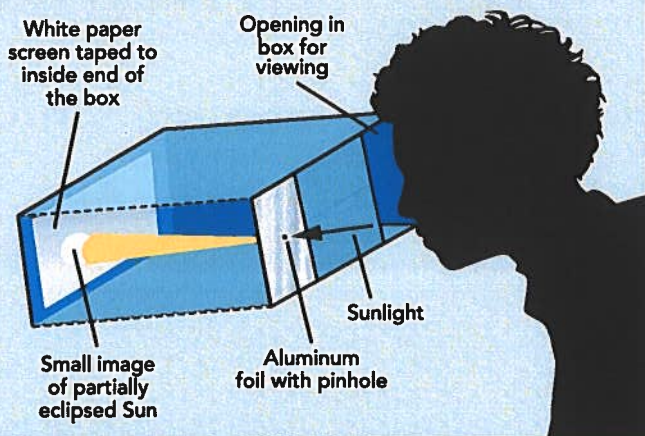
Create an inexpensive but functional, safe solar viewer with just plywood, lenses, rubber bands, paper and popsicle sticks! <https://go.nasa.gov/3yx0A0T>

## MAKE YOUR OWN ECLIPSE PROJECTOR

You can make this simple eclipse projector with almost any cardboard box, paper, tape and foil.

The longer the distance from the pinhole to screen, the larger the image of the Sun will be.

**NEVER** look directly at the Sun without appropriate eyewear.



**ECLIPSES IN THE UNITED STATES:** The next solar eclipses that cross the United States are on Saturday, October 14, 2023 (Annular Solar Eclipse) and Monday, April 8, 2024 (Total Solar Eclipse).

For more on eclipses: <http://www.nasa.gov/eclipse>

This product is supported by NASA under cooperative agreement number NNH15ZDA004C.

Check with local science museums, schools and astronomy clubs for eclipse glasses—or purchase an ISO 12312-2 compliant pair of these special shades! Always inspect your solar filter before use. If scratched or damaged, discard it.

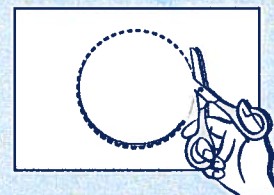
## DRAW THE CORONA

Long before there were cameras or telescopes, eclipse watchers recorded what they saw in the sky in words, drawings, and paintings. You can have fun creating your own picture of a solar eclipse with chalk and paper! You can do this activity before an eclipse to predict what you'll see, or after to record what you saw.

First, trace a large circle template on stiff paper.



Carefully cut out the circle.



Place the template on dark paper and hold or tape it down. Draw a thick circle or lines of chalk around the template a few times — it doesn't need to be neat!



Holding the template in place, smudge the chalk away from the center of the circle using a finger to create the corona of the Sun.



When you are done smudging, remove the circle template and add words, pictures, or fun designs.



**You've made total solar eclipse art!**



The whole family can get involved in learning about eclipses! Morgan (age 5) and Chelsea (age 2) drew these dazzling coronas.



# TAIZÉ PRAYER

Lenten Prayer Service at St. John the Baptist Church  
2021 Sandridge Road, Alden, NY  
Good Friday, March 29, 7:30 PM  
*All are warmly invited.*

## The Three Pillars of Taizé Prayer

Whether this is your first encounter with Taizé or your hundredth, it is important to keep in mind the three pillars of the prayer form. Each one is essential to enter fully into the service. Each one allows participants to rest in the presence of the Holy Spirit in prayer.

### Meditation

The Taizé community in France believes that their way of singing is "a kind of introduction to *lectio divina*," which is a very focused reflection on Scripture. The silence and simplicity of the Taizé prayer allows people to fully enter into meditation, internalizing the beauty of the biblical words. This meditation can illuminate texts with an unexpected light and understanding..

### Silence

Often something we are uncomfortable with, Taizé uses silence to make us ready for a new meeting with God. In silence, God's word can reach the hidden corners of our hearts. In silence, we stop hiding before God, and the light of Christ can reach and heal and transform even what we are ashamed of. Silence is something there is a shortage of in our culture and lifestyle. Taizé participants often say they feel refreshed after the service, and this sacred silence is part of the reason.

### Simplicity

Simplicity allows for participants to enter into what Eastern Christians call the "prayer of the heart." It is a prayer that repeats until it takes little thought and flows straight from the soul. Repetition allows us to make the words our own and find the meaning beyond the words.



## What is Taizé

The religious community of Taizé (teh-ZAY) is an ecumenical community of brothers in the hills of Burgundy, in eastern France.

The community was founded by Brother Roger in 1949, with the intention of praying for peace and in reparation for the atrocities of war. Taizé prayer includes quiet reflection, readings from Scripture, and, especially, meditative chant. Throughout Europe and beyond, the brothers of Taizé have inspired millions of pilgrims, especially youth, to deepen their prayer experience.

Repetition and reflection are key to the chants. Since the Taizé community and their ministry are international, Latin, a neutral language, is often used for their chants. The language may also shift among several languages in a single song depending on the local community. We will be singing in English.

Much like the words of the Rosary, the music invites us to enter deeply into meditation through its recurring rhythm.

\* \* \* \* \*

*"Something very interesting at Taizé is that this formula of calming repetition has been taken up in the liturgy; that is, it is not used only in personal prayer, but also in prayer together or common prayer. Some young people, who know almost nothing of mystery, are introduced to it here, and they begin to learn how to pray."*

-Olivier Clément, French Theologian

# Fields of Grace Family of Parishes



## **HOLY THURSDAY | MARCH 28<sup>TH</sup>**

Morning Prayer – 9:00am – St. Maximilian Kolbe, East Pembroke Church

Holy Thursday Mass – 7:00pm St. Maximilian Kolbe, Corfu; Immaculate Heart of Mary, Bennington; and St. John Neumann, Strykersville

## **GOOD FRIDAY | MARCH 29<sup>TH</sup>**

Morning Prayer – 9:00am – St. Maximilian Kolbe, Corfu Church

Good Friday Service, Passion of the Lord – 3:00pm – St. Maximilian Kolbe, East Pembroke; Immaculate Heart of Mary, Darien, St. Joachim & Anne, Varysburg

*Taizé – 7:30 pm at St. John the Baptist Church, 2021 Sandridge Road, Alden*

## **HOLY SATURDAY | MARCH 30<sup>TH</sup>**

Morning Prayer – 9:00am – St. Maximilian Kolbe, Corfu Church

### **Basket Blessings:**

10:00am – St. Joachim & Anne, Attica

10:00am – St. John Neumann, Strykersville (followed by an Easter Egg Hunt)

10:00am – Immaculate Heart of Mary, Darien

11:00am – St. Maximilian Kolbe, East Pembroke

Noon – St. John the Baptist, Alden (followed by an Easter Egg Hunt)

## **EASTER VIGIL | 8:30PM**

St. John the Baptist – Alden

St. John Neumann – Sheldon

Ss. Joachim & Anne – Attica

## **EASTER SUNDAY | MARCH 31<sup>ST</sup>**

St. John the Baptist, Alden – 8:00am and 11:00am

Immaculate Heart of Mary, Bennington – 8:00am

St. Maximilian Kolbe, Corfu - 9:00am

St. Joachim & Anne, Varysburg – 9:00am and Attica – 11:00am

St. John Neumann, Strykersville – 10:00am