

To post your events and homemade telescopes, star parties, birthday cakes and solar event photos please go to Sidewalk Astronomers Face Book page.

For more information on SWA outreach events, solar and night telescope plans; mirror grinding and additional resources go to: Sidewalkastronomers.us

Thank you for participating in our events

This Book Belongs To:

Solar Eclipses 2016

March 9th Total Eclipse — where moon blocks all the light from the sun. This one is not visible in US. But in South East Asia, Indonesia, Australia, and East Pacific Ocean.

September 1st Annular Eclipse — where the moon does NOT block all light of the sun but leaves a ring around the edge of the sun. This one is not visible in US. Will be seen in Central Africa, Atlantic and Indian Ocean.

For information on eclipses go to: Eclipse.gsfc.nasa.gov

Family

Eclipse.gsfc.nasa.gov For information on eclipses go to:

Asia, Australia and West Pacific Zeptember 16th will be seen in Europe, Africa,

Western America, West Pacific March 23rd will be seen in Asia, Australia, Pacific,

Earth's shadow and looks like a through a faint outer part of the Is where the moon moves



Penumbral Lunar Eclipse

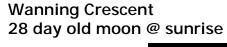
Earth Shine — Earth glow on lunar surface

Waxing Crescent Moon

1-3 day moon @ sunset

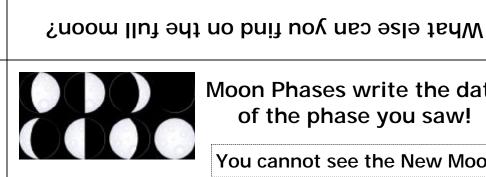
Jan 10th to12th Feb 9th to11th Mar 9th to 11th Apr 8th to 10th May 7th to10th Jun 5th to 7th Jul 5th to 7th Aug 3rd to 5th Sep 2nd to 4th Oct 1st to 4th Nov 10/31 to 11/3 Dec 11/30 to 12/3

Doc 20th to 1/1 2017



Jan 4th to7th Feb 4th to7th Mar 4th to 7th Apr 3rd to 6th May 2nd to 5th Jun 5/31st to 6/3rd Jul 1st to 3rd Aug 7/30th to 8/1st Aug 28th to 31st Sep 26th to 29th Oct 27th to 29th Nov 26th to 28th Dec 26th to 28th

Doc 20th to 1/1 2017



Moon Phases write the date of the phase you saw!

You cannot see the New Moon

Waxing Crescent on:	
First Quarter on:	
Waxing Gibbous on:	
Full Moon on:	
Wanning Gibbous on:	
Third Quarter on:	
Wanning Crescent on:	

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Flare on:	tally mark the meteors you see!
Solar Sun Day September 11th What I saw on our sun: Prominence on: Filament on:	14's A Family Affair Aug 12th-14th 100th Birthday of National Park Camp out, BBQ, spend the day or weekend at a national, state or local park with your family. Dbserve the sun during the day and lay on a blanket to count meteors at night!
Build Your Own Telescope/ Amateur Telescope Making Day—January 15th start the year by making your own telescope!	Saturn Spotting Weekend June 3rd to 5th Opposition June 3rd Will be up summer to fall I saw Saturn on:
I looked through a home made telescope on:	Date:
Date:	Date:
Date:	
Telescope plans: http://www.sidewalkastronomers.us/id5.html	Date:

With moon Jun 3rd; Sep 29th; With Jupiter Apr 20th; With Pleiades Jun 13th	Date:
May 9th Transits the Sun	Date:
Sunset W. horizon: Apr 18th; Jun 16th; Aug 16th; Nov 11th;	With Jupiter Aug 27th; Sep 18th in Virgo/Spica
Sunrise E. horizon: Feb 7th; Jun 5th; Oct 28th;	With Moon: Feb 6th; Aug 4th; Sep 3rd;
I saw the planet Mercury on:	Closest to Earth Perihelion Jul 17th
Mercury Madness Will be up a lot this year!	I saw the planet Venus on:
Mars Attacks Weekend May 20th to 22nd Opposition May 22nd I saw the planet Mars on:	Jupiter Rising Weekend Mar 3rd to 6th Opposition Mar 8th up from spring into summer
Date:	Juno arrives @ Jupiter I saw the planet Jupiter on: July 4th
Date:	With Moon: May 15th; Jun 11th; Oct 28th; Nov 24th; Dec 22nd
Mars closest to Earth on Oct 29th to 30th	With Mercury Aug 20th; Venus Aug 27th;
Mars with Moon: Feb 1st; Nov 6th; Dec 5th;	Date:

Take pictures of your B-day goodies and party fun on Sidewalk Astronomers Face Book page

What flavor cake did you make? _____ What we did was _____ Who was there?

Make a telescope or astronomy themed cake, cupcakes

or cookies

Happy Birthday John! September 14th

May 14th **NASI**

Dr.ch=Saucepan

Africa=Drinking Gourd

Mongolia=Seven Gods

Last Asia=Right Wall

Finland=Salmon Net

Greek=Mother Bear

Chinese = Grain Measure

Romania=Great Wagon

No. America Native American=Bear

Dipper

Arabic=Cottin

German=Wagon

UK=the Plough

world tonight! being done all over the

Astronomy Might

International Sidewalk

Circle the one you learned about the Big Dipper

Spain=Oxen & Dog

US/Canada=Ladle or

Malaysia=Canoe Stars

With Venus & Virgo Girls Rule Sept 17th



Boys Night Out Nov 5th

Mars & Moon

Where was event? _____



Who was there?	
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Where was event?	