



1  
00:00:07,590 --> 00:00:04,309

[Music]

2  
00:00:09,669 --> 00:00:07,600

sunset triangle presented by science at

3  
00:00:11,589 --> 00:00:09,679

nasa

4  
00:00:12,870 --> 00:00:11,599

sunset is often the most beautiful part

5  
00:00:15,110 --> 00:00:12,880

of the day

6  
00:00:17,109 --> 00:00:15,120

low hanging clouds glow vivid red and

7  
00:00:18,790 --> 00:00:17,119

orange as the background sky turns

8  
00:00:20,630 --> 00:00:18,800

cobalt blue

9  
00:00:22,950 --> 00:00:20,640

the first stars pop out in the heavenly

10  
00:00:25,189 --> 00:00:22,960

dome overhead drawing hopeful wishes

11  
00:00:27,429 --> 00:00:25,199

from young sky watchers

12  
00:00:29,750 --> 00:00:27,439

it's a special time

13  
00:00:31,189 --> 00:00:29,760

the sunset of may 26 will be extra

14

00:00:33,190 --> 00:00:31,199

special

15

00:00:35,350 --> 00:00:33,200

on that date the fading glow in the

16

00:00:37,990 --> 00:00:35,360

western sky will be punctuated by a

17

00:00:38,950 --> 00:00:38,000

three-way conjunction of bright planets

18

00:00:41,190 --> 00:00:38,960

venus

19

00:00:44,229 --> 00:00:41,200

jupiter and mercury will form a tight

20

00:00:45,910 --> 00:00:44,239

triangle only three degrees wide

21

00:00:47,270 --> 00:00:45,920

triple conjunctions of planets are

22

00:00:49,190 --> 00:00:47,280

fairly rare

23

00:00:52,069 --> 00:00:49,200

the last time it happened was in may

24

00:00:54,709 --> 00:00:52,079

2011 and it won't happen again until

25

00:00:56,709 --> 00:00:54,719

october 2015.

26

00:00:58,470 --> 00:00:56,719

this triple is especially good because

27

00:01:00,150 --> 00:00:58,480

it involves the three brightest planets

28

00:01:02,310 --> 00:01:00,160

in the may night sky

29

00:01:05,109 --> 00:01:02,320

number one venus

30

00:01:06,710 --> 00:01:05,119

number two jupiter and number three

31

00:01:08,550 --> 00:01:06,720

mercury

32

00:01:11,990 --> 00:01:08,560

the triangle will be visible even in

33

00:01:14,469 --> 00:01:12,000

places with heavy urban light pollution

34

00:01:16,550 --> 00:01:14,479

the best time to look is about 30 to 60

35

00:01:18,149 --> 00:01:16,560

minutes after sunset

36

00:01:20,230 --> 00:01:18,159

the three planets will be hugging the

37

00:01:22,550 --> 00:01:20,240

horizon so a clear view of the western

38

00:01:25,030 --> 00:01:22,560

sky is essential

39

00:01:26,870 --> 00:01:25,040

let venus be your guide it pops out of

40

00:01:27,830 --> 00:01:26,880

the fading twilight long before the

41

00:01:29,910 --> 00:01:27,840

others

42

00:01:31,990 --> 00:01:29,920

as soon as you locate venus look in that

43

00:01:34,469 --> 00:01:32,000

direction using binoculars

44

00:01:35,749 --> 00:01:34,479

if your binoculars are typical all three

45

00:01:37,670 --> 00:01:35,759

planets will fit in the eyepiece

46

00:01:39,910 --> 00:01:37,680

simultaneously

47

00:01:41,749 --> 00:01:39,920

as the twilight continues to fade set

48

00:01:43,270 --> 00:01:41,759

the optics aside

49

00:01:45,910 --> 00:01:43,280

eventually the triangle will become

50

00:01:47,749 --> 00:01:45,920

visible to the naked eye

51  
00:01:49,749 --> 00:01:47,759  
you don't have to wait until may 26 to

52  
00:01:51,510 --> 00:01:49,759  
enjoy the show however

53  
00:01:52,789 --> 00:01:51,520  
the planets start gathering weeks

54  
00:01:55,109 --> 00:01:52,799  
earlier

55  
00:01:57,910 --> 00:01:55,119  
dates of special interest include

56  
00:02:00,630 --> 00:01:57,920  
may 11th through 13th when the crescent

57  
00:02:02,630 --> 00:02:00,640  
moon venus and jupiter form a long

58  
00:02:03,990 --> 00:02:02,640  
diagonal line jutting upward from the

59  
00:02:06,630 --> 00:02:04,000  
sunset

60  
00:02:08,869 --> 00:02:06,640  
may 23rd when jupiter and venus converge

61  
00:02:10,869 --> 00:02:08,879  
to less than five degrees apart

62  
00:02:12,869 --> 00:02:10,879  
close enough for simultaneous binocular

63  
00:02:15,670 --> 00:02:12,879

viewing

64  
00:02:17,910 --> 00:02:15,680  
may 24th when mercury passes venus less

65  
00:02:19,589 --> 00:02:17,920  
than two degrees away giving shape to

66  
00:02:23,430 --> 00:02:19,599  
the triangle that reaches maximum

67  
00:02:25,430 --> 00:02:23,440  
compactness two nights later on may 26th

68  
00:02:28,869 --> 00:02:25,440  
the triangle begins to disperse on may

69  
00:02:31,670 --> 00:02:28,879  
27th but even then the show is not over

70  
00:02:34,309 --> 00:02:31,680  
on may 28th venus passes jupiter at a

71  
00:02:36,550 --> 00:02:34,319  
distance of one degree forming a truly

72  
00:02:38,790 --> 00:02:36,560  
spectacular pair

73  
00:02:40,630 --> 00:02:38,800  
from beginning to end the three naked

74  
00:02:42,869 --> 00:02:40,640  
eye planets will be close enough to fit

75  
00:02:45,990 --> 00:02:42,879  
inside the field of ordinary binoculars

76

00:02:48,309 --> 00:02:46,000

from may 23rd until early june

77

00:02:50,470 --> 00:02:48,319

may 26th is just the best among many

78

00:02:51,990 --> 00:02:50,480

very good nights

79

00:02:54,949 --> 00:02:52,000

step outside

80

00:02:56,869 --> 00:02:54,959

face west and observe the planets

81

00:02:58,790 --> 00:02:56,879

it's an extra beautiful way to end the

82

00:03:00,550 --> 00:02:58,800

day