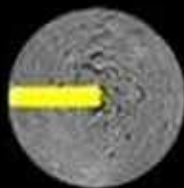




Moon's orbit  
= 29 days



Moon's rotation  
= 29 days

1  
00:00:07,030 --> 00:00:04,820  
what's up for July this month I'll be

2  
00:00:09,919 --> 00:00:07,040  
taking you on a guided tour of the moon

3  
00:00:12,740 --> 00:00:09,929  
hello and welcome I'm Jane Houston Jones

4  
00:00:15,890 --> 00:00:12,750  
with NASA's Jet Propulsion Laboratory in

5  
00:00:17,750 --> 00:00:15,900  
Pasadena California the moon has some

6  
00:00:21,260 --> 00:00:17,760  
great features that you can see with the

7  
00:00:24,439 --> 00:00:21,270  
unaided eye first look for bright rays

8  
00:00:26,660 --> 00:00:24,449  
or long white lines these are streaming

9  
00:00:29,630 --> 00:00:26,670  
from impact craters on the moon surface

10  
00:00:32,120 --> 00:00:29,640  
these craters and their dramatic rays

11  
00:00:35,000 --> 00:00:32,130  
were created less than 1 billion years

12  
00:00:38,240 --> 00:00:35,010  
ago when asteroids or comets hit the

13  
00:00:40,190 --> 00:00:38,250

moon another really cool site you can

14

00:00:42,860 --> 00:00:40,200

see without a telescope is the Sea of

15

00:00:45,950 --> 00:00:42,870

Tranquility this is where the Apollo 11

16

00:00:49,940 --> 00:00:45,960

astronauts took humankind's first steps

17

00:00:52,189 --> 00:00:49,950

on the moon in 1969 you won't be able to

18

00:00:55,130 --> 00:00:52,199

see their footsteps or the flag they

19

00:00:58,880 --> 00:00:55,140

planted or the spacecraft even with a

20

00:01:01,459 --> 00:00:58,890

telescope now here are some facts about

21

00:01:03,860 --> 00:01:01,469

the moon it takes about twenty nine days

22

00:01:06,710 --> 00:01:03,870

to go around the earth once and it also

23

00:01:09,920 --> 00:01:06,720

takes the moon about 29 days to spin

24

00:01:13,040 --> 00:01:09,930

once on its axis this means we always

25

00:01:16,190 --> 00:01:13,050

see the same side of the moon

26  
00:01:18,890 --> 00:01:16,200  
as the moon orbits earth the portion we

27  
00:01:22,190 --> 00:01:18,900  
see illuminated changes we call these

28  
00:01:24,650 --> 00:01:22,200  
changes phases the first phase called

29  
00:01:27,470 --> 00:01:24,660  
the new moon is just a sliver and very

30  
00:01:30,590 --> 00:01:27,480  
difficult to see at first but each night

31  
00:01:32,450 --> 00:01:30,600  
it gets bigger and brighter the next

32  
00:01:34,670 --> 00:01:32,460  
phase is called the first quarter moon

33  
00:01:37,730 --> 00:01:34,680  
because it has traveled one quarter of

34  
00:01:40,940 --> 00:01:37,740  
its 29 day orbit it's the easiest phase

35  
00:01:43,720 --> 00:01:40,950  
to observe it rises at noon and sets at

36  
00:01:46,970 --> 00:01:43,730  
midnight a full moon is the next phase

37  
00:01:50,330 --> 00:01:46,980  
the full moon is behind earth in space

38  
00:01:52,910 --> 00:01:50,340

with respect to the Sun the last quarter

39

00:01:55,790 --> 00:01:52,920

moon follows the full moon each night it

40

00:01:57,350 --> 00:01:55,800

rises later and we see less of it we'll

41

00:02:00,890 --> 00:01:57,360

have more to say about the moon next

42

00:02:08,290 --> 00:02:00,900

month plus meteors and Mars to learn

43

00:02:16,220 --> 00:02:13,130

www.cash or sky charts at education JPL

44

00:02:18,500 --> 00:02:16,230

nasa gov just click on the what's up