1
00:00:05,990 --> 00:00:01,990
so this is a little model i made of the

2
00:00:07,990 --> 00:00:06,000
solar system i have the earth here and

3
00:00:09,830 --> 00:00:08,000
the moon over here

4
00:00:12,070 --> 00:00:09,840
and way over there

5
00:00:14,910 --> 00:00:12,080
i have the sun which is just a strong

6
00:00:17,349 --> 00:00:14,920
flashlight focused now if i look from

7
00:00:19,830 --> 00:00:17,359
above at this system

8
00:00:22,070 --> 00:00:19,840
sorry it's so dark but you can see that

9
00:00:24,710 --> 00:00:22,080
the terminal lines go straight across

10
00:00:26,630 --> 00:00:24,720
the earth and straight across the moon

11
00:00:29,189 --> 00:00:26,640
now if we go down to

12
00:00:31,429 --> 00:00:29,199
over here this is north america

13
00:00:33,590 --> 00:00:31,439

uh you can imagine we're looking at the

14
00:00:36,549 --> 00:00:33,600
moon and the moon looks like that

15
00:00:38,470 --> 00:00:36,559
and if i just move back a bit and get

16
00:00:39,430 --> 00:00:38,480
the sun in there's the sun and you can

17
00:00:41,830 --> 00:00:39,440
see

18
00:00:44,470 --> 00:00:41,840
the uh the moon and

19
00:00:46,790 --> 00:00:44,480
the sun off in the distance

20
00:00:48,950 --> 00:00:46,800
and we can obviously move

21
00:00:50,790 --> 00:00:48,960
uh

22
00:00:51,590 --> 00:00:50,800
the moon around

23
00:00:55,670 --> 00:00:51,600
and

24
00:00:59,189 --> 00:00:55,680
much of the moon is illuminated you can

25
00:01:00,389 --> 00:00:59,199
see here we're getting more towards a

26
00:01:02,869 --> 00:01:00,399
full moon

27
00:01:05,429 --> 00:01:02,879
oops and i'm still

28
00:01:07,670 --> 00:01:05,439
still actually looking at it from

29
00:01:11,109 --> 00:01:07,680
the daylight portion

30
00:01:13,190 --> 00:01:11,119
so here's the uh north america here

31
00:01:13,990 --> 00:01:13,200
here's the moon which is three quarters

32
00:01:17,670 --> 00:01:14,000
full

33
00:01:19,429 --> 00:01:17,680
and the sun is way over here

34
00:01:21,749 --> 00:01:19,439
and uh

35
00:01:23,030 --> 00:01:21,759
from the angle of north america it

36
00:01:25,910 --> 00:01:23,040
actually