1
00:00:00,199 --> 00:00:02,660
Our next Mars Rover gets closer to launch
…

2
00:00:02,660 --> 00:00:06,470
A comet spotted from the space station…

3
00:00:06,470 --> 00:00:10,330
And we're ready to build a spacecraft to
explore a metal-rich asteroid …

4
00:00:10,330 --> 00:00:15,259
a few of the stories to tell you about – This
Week at NASA!

5
00:00:15,259 --> 00:00:23,980
On Tuesday, July 7, our Mars 2020 Perseverance
rover was lifted onto the top of the Atlas

6
00:00:23,980 --> 00:00:27,760
V rocket that will send it towards the Red
Planet this summer.

7
00:00:27,760 --> 00:00:32,900
Engineers have made physical and electrical
connections between the booster and the spacecraft

8
00:00:32,900 --> 00:00:35,820
and are conducting the final tests before
launch.

9
00:00:35,820 --> 00:00:40,870
Perseverance's mission … search for signs
of ancient microbial life, study the planet's

10
00:00:40,870 --> 00:00:45,730
climate and geology, and collect samples for
possible return to Earth.

11

00:00:45,730 --> 00:00:50,220
This mission will help pave the way for human exploration of Mars.

12
00:00:50,220 --> 00:00:55,570
Meanwhile on the Martian surface, our Curiosity Rover began a summer road trip of roughly

13
00:00:55,570 --> 00:00:58,940
a mile of steep terrain to ascend Mount Sharp.

14
00:00:58,940 --> 00:01:03,559
Curiosity will look for sulfates that usually form around water as it evaporates.

15
00:01:03,559 --> 00:01:09,590
They are a clue to how the climate and prospects for life changed nearly 3 billion years ago.

16
00:01:09,590 --> 00:01:14,420
Our Moon exploration technologies are getting a boost from additional investments for small

17
00:01:14,420 --> 00:01:15,420
businesses.

18
00:01:15,420 --> 00:01:20,429
We've picked four American companies to develop technologies ranging from communications

19
00:01:20,429 --> 00:01:24,720
to improved driving on the lunar surface to use of lunar resources.

20
00:01:24,720 --> 00:01:29,560
These investments are part of our Artemis program, which aims to land the first woman

21
00:01:29,560 --> 00:01:33,450
and next man on the Moon in 2024.

22
00:01:33,450 --> 00:01:38,259
Kathy Lueders, the new leader of our human
spaceflight efforts, got an up-close look

23
00:01:38,259 --> 00:01:43,670
at the booster segments for our Space Launch
System or SLS rocket, during a recent visit

24
00:01:43,670 --> 00:01:45,539
to our Kennedy Space Center in Florida.

25
00:01:45,539 --> 00:01:52,420
The boosters are being prepped for Artemis
I, when SLS will send an uncrewed Orion spacecraft

26
00:01:52,420 --> 00:01:54,840
around the Moon and back.

27
00:01:54,840 --> 00:01:59,459
Astronauts aboard the International Space
Station spotted a comet previously discovered

28
00:01:59,459 --> 00:02:04,679
by and named after our NEOWISE mission that
studies near-earth objects.

29
00:02:04,679 --> 00:02:09,959
Comet NEOWISE will pass harmlessly at 64 million
miles from Earth while giving astronomers

30
00:02:09,959 --> 00:02:13,700
the opportunity to learn more about its composition
and structure.

31
00:02:13,700 --> 00:02:18,540
You can catch a glimpse of the glowing comet
in the evening sky shortly after sunset on

32

00:02:18,540 --> 00:02:21,650
July 11th as it speeds away from the Sun.

33
00:02:21,650 --> 00:02:26,890
Our Psyche mission to explore a metal-rich
asteroid has passed a crucial mission milestone.

34
00:02:26,890 --> 00:02:31,840
The systems designed to do their job in deep
space are now ready to be built.

35
00:02:31,840 --> 00:02:37,299
Psyche is planned to launch in 2022 and will
fly to its target in the main asteroid belt

36
00:02:37,299 --> 00:02:39,110
between Mars and Jupiter.

37
00:02:39,110 --> 00:02:42,459
That’s what’s up this week @NASA …