



1  
00:00:04,950 --> 00:00:07,570  
NASA is advancing  
science and technology

2  
00:00:07,570 --> 00:00:10,795  
with the first flight of the  
Space Launch System or SLS.

3  
00:00:15,320 --> 00:00:17,730  
Demonstrating the  
capability of the new rocket

4  
00:00:17,730 --> 00:00:20,470  
and the Orion  
spacecraft in deep space

5  
00:00:20,470 --> 00:00:23,585  
for future human exploration  
is the primary goal

6  
00:00:23,585 --> 00:00:24,210  
of the mission.

7  
00:00:28,740 --> 00:00:31,850  
As a bonus, SLS will  
send small satellites,

8  
00:00:31,850 --> 00:00:35,090  
called CubeSats, to  
deep space destinations

9  
00:00:35,090 --> 00:00:38,096  
where they can gather valuable  
data for future exploration

10  
00:00:38,096 --> 00:00:38,595  
missions.

11  
00:00:43,590 --> 00:00:47,410

Once in orbit, the SLS upper stage, called Interim Cryogenic

12

00:00:47,410 --> 00:00:49,640

Propulsion Stage,  
fires its engine

13

00:00:49,640 --> 00:00:51,460

to propel Orion to the moon.

14

00:00:56,910 --> 00:01:00,600

SLS will send Orion farther out  
beyond the moon than the Apollo

15

00:01:00,600 --> 00:01:02,240

astronauts traveled,  
where it can

16

00:01:02,240 --> 00:01:05,740

test communication, navigation,  
and other deep space

17

00:01:05,740 --> 00:01:06,840

exploration systems.

18

00:01:15,220 --> 00:01:19,180

Once Orion is a safe distance  
away, the fleet of 13 CubeSats

19

00:01:19,180 --> 00:01:20,100

will be deployed.

20

00:01:26,300 --> 00:01:29,260

The onboard avionics box  
will command each dispenser

21

00:01:29,260 --> 00:01:32,740

to release the small satellites,  
sending each one on their way

22

00:01:32,740 --> 00:01:36,416

to deep space destinations,  
such as the moon or an asteroid.

23

00:01:41,690 --> 00:01:43,410

Each has a mission  
that can provide

24

00:01:43,410 --> 00:01:46,710

NASA with new key knowledge  
and test new technologies.

25

00:01:55,920 --> 00:01:57,660

CubeSats flown on  
the mission will

26

00:01:57,660 --> 00:02:01,200

perform in-space experiments  
and demonstrations

27

00:02:01,200 --> 00:02:04,030

that will actively advance  
the capabilities needed