

A woman with dark hair, wearing a black NASA polo shirt, is smiling and holding a large, textured white globe. The globe is mounted on a stand with a vertical rod. The background is a plain, light-colored wall.

#AskNASA

HOW DO WE GET NEW SCIENCE
TO THE MOON?

1

00:00:07,490 --> 00:00:12,150

scene 1 take 1

I am Camille Alleyne deputy manager for the

2

00:00:12,150 --> 00:00:16,740

commercial lunar payload services this is
ask NASA and I'm ready for your questions

3

00:00:18,300 --> 00:00:24,080

who will deliver new science
and technology to the moon

4

00:00:27,119 --> 00:00:31,560

we have 14 companies that are eligible to compete
for delivering our science instruments

5

00:00:31,560 --> 00:00:37,500

and technology demonstrations to the
moon something akin to a FedEx delivery

6

00:00:37,500 --> 00:00:41,240

service except to the moon

7

00:00:41,240 --> 00:00:44,610

is NASA sending science to the moon

8

00:00:44,610 --> 00:00:49,020

we're actually working with two companies to
send a little over a dozen instruments

9

00:00:49,020 --> 00:00:54,719

to the surface in 2021 we are likely
going to ask companies though to send

10

00:00:54,719 --> 00:00:57,710

more things in the future

11

00:00:58,219 --> 00:01:00,000

what are we sending and why

12
00:01:01,400 --> 00:01:03,719
we are
sending science there's so much the moon

13
00:01:03,719 --> 00:01:08,359
can tell us about our home planet and
the evolution of our solar system

14
00:01:09,630 --> 00:01:16,189
in the future though we'll be sending things in
support of human missions such as Rovers

15
00:01:16,189 --> 00:01:22,080
supplies for our astronauts
and perhaps communication equipment

16
00:01:22,080 --> 00:01:24,060
so why have them compete

17
00:01:24,060 --> 00:01:26,790
we know that commercial companies develop really

18
00:01:26,790 --> 00:01:31,079
innovative approaches to space
exploration so we expect that it will be

19
00:01:31,079 --> 00:01:35,200
no different for delivery services

20
00:01:37,280 --> 00:01:39,299
what kind of tools does NASA need to explore the moon

21
00:01:39,299 --> 00:01:45,780
well for starters we need Landers to be able to transport our

22
00:01:45,780 --> 00:01:50,549
science and people to the surface but
once we get there we need to be able to

23

00:01:50,549 --> 00:01:56,780

investigate what we find
perhaps water ice at the South Pole

24

00:01:57,070 --> 00:02:01,310

but we also need to be able to pick up
samples and return them home

25

00:02:07,010 --> 00:02:11,340

how does this help with human missions under the
Artemis program

26

00:02:12,300 --> 00:02:15,600

well science and human exploration

27

00:02:16,020 --> 00:02:18,400

go hand in hand

28

00:02:18,490 --> 00:02:21,605

do you plan to make expeditions on Mars

29

00:02:21,605 --> 00:02:24,320

yes our ultimate goal is the human

30

00:02:24,320 --> 00:02:29,030

exploration of Mars but we're using the
moon as a stepping stone to develop

31

00:02:29,030 --> 00:02:34,370

tools technologies and partnerships that
will enable Mars expeditions in the future