

A photograph of a SpaceX Dragon cargo resupply mission. The white Dragon capsule is suspended vertically from a white service structure, likely the Mobile Launcher Platform. The capsule features the SpaceX logo and a NASA logo. The background is dark, suggesting an indoor facility or night launch. The text is overlaid on the lower half of the image.

SCIENCE LAUNCHING
ON SPACEX'S 23RD CARGO RESUPPLY
MISSION TO THE SPACE STATION

1
00:00:00,000 --> 00:00:03,106
WHY ARE WE SENDING SEEDS

2
00:00:03,106 --> 00:00:04,562
A ROBOTIC ARM

3
00:00:04,562 --> 00:00:06,122
A NEW RESEARCH FACILITY

4
00:00:06,122 --> 00:00:08,921
AND CONCRETE TO THE SPACE STATION?

5
00:00:08,921 --> 00:00:13,448
THE INTERNATIONAL SPACE STATION
IS A LAB LIKE NO OTHER

6
00:00:13,448 --> 00:00:18,359
A SPACEX DRAGON WILL SOON
DELIVER DOZENS OF NEW EXPERIMENTS

7
00:00:18,359 --> 00:00:23,888
LET'S TAKE A LOOK AT WHAT'S ON BOARD
THE 23RD SPACEX CARGO MISSION

8
00:00:23,888 --> 00:00:25,767
APEX-08

9
00:00:25,767 --> 00:00:30,000
GENETICALLY-ENGINEERED SEEDS COULD HELP RESEARCHERS DESIGN

10
00:00:30,000 --> 00:00:34,520
PLANTS BETTER SUITED FOR MICROGRAVITY.

11
00:00:34,520 --> 00:00:36,263
FARADAY RESEARCH FACILITY

12
00:00:36,263 --> 00:00:40,226
A NEW MULTIPURPOSE RESEARCH FACILITY WILL HOST A VARIETY OF EXPERIMENTS, INCLUDING

13

00:00:40,226 --> 00:00:44,192

STUDIES DEVELOPED BY GIRL SCOUTS, AND AN IMPLANT TO REMOTELY ADMINISTER DRUGS.

14

00:00:44,192 --> 00:00:46,468

MISSE-15 NASA

15

00:00:46,468 --> 00:00:50,034

CONCRETE, FIBERGLASS COMPOSITES, SOLAR CELLS, RADIATION PROTECTION MATERIALS, AND

16

00:00:50,034 --> 00:00:54,464

MORE WILL BE TESTED FOR DURABILITY IN THE HARSH SPACE ENVIRONMENT.

17

00:00:54,464 --> 00:00:57,394

NANORACKS-GITAI ROBOTIC ARM

18

00:00:57,394 --> 00:01:00,374

A JAPANESE ROBOTIC ARM WILL CONDUCT A SERIES OF TASKS TO DEMONSTRATE HOW ROBOTIC

19

00:01:00,374 --> 00:01:04,450

COULD REDUCE THE COST OF SPACECRAFT OPERATIONS AND IMPROVE CREW SAFETY.

20

00:01:04,450 --> 00:01:06,282

READI-FP

21

00:01:06,282 --> 00:01:09,680

RESEARCHERS WILL STUDY HOW BIOACTIVE METABOLITES IN WINE PRODUCTION

22

00:01:09,680 --> 00:01:14,527

WASTE COULD MITIGATE BONES LOSS RELATED TO OSTEOPOROSIS.

23

00:01:14,527 --> 00:01:15,681

RETINAL DIAGNOSTICS

24

00:01:15,681 --> 00:01:20,976

RESEARCHERS WILL CAPTURE IMAGES OF ASTRONAUTS' RETINAS TO TEST A SMALL, LIGHT-BASED

25

00:01:20,976 --> 00:01:25,009

DEVICE WHICH MAY SERVE AS A MOBILE RETINAL DIAGNOSTICS TOOL IN SPACE AND ON EARTH.