SPACE TO GROUND

1
00:00:00,650 --> 00:00:02,490
VO: Houston, station on space to ground.

2
00:00:02,490 --> 00:00:04,080
Josh Byerly: Welcome to Space to Ground.

3
00:00:04,080 --> 00:00:05,840
Your weekly look at what's happening on
board the ISS.

4
00:00:05,840 --> 00:00:06,980
I'm Josh Byerly.

5
00:00:06,980 --> 00:00:11,169
Steve Swanson, Oleg Artemyev and Alexander
Skvortsov are in Kazakhstan getting ready

6
00:00:11,169 --> 00:00:13,280
to launch to the station next week.

7
00:00:13,280 --> 00:00:16,379
The three are going through some final preps
for their trip into space and will talk to

8
00:00:16,379 --> 00:00:17,830
the media on Monday.

9
00:00:17,830 --> 00:00:22,130
Launch time is scheduled for 5:17 p.m. Eastern
on Tuesday, and we'll have live coverage

10
00:00:22,130 --> 00:00:24,650
on NASA television and nasa.gov.

11
00:00:24,650 --> 00:00:28,400
This will be the first trip into space for
Artemyev, the second for Skvortsov and the

12

00:00:28,400 --> 00:00:30,150
third for Swanson.

13
00:00:30,150 --> 00:00:32,610
The station steered out of the way of some
orbital debris this week.

14
00:00:32,610 --> 00:00:36,200
On Sunday, Mission Control Houston monitored
a piece of a Russian satellite that was launched

15
00:00:36,200 --> 00:00:38,150
back in 1979.

16
00:00:38,150 --> 00:00:42,330
Just to play it safe, the station's altitude
was raised late that night to clear it of

17
00:00:42,330 --> 00:00:43,330
debris' path.

18
00:00:43,330 --> 00:00:46,610
This is the first time since 2012 the station
has had to conduct one of these maneuvers.

19
00:00:46,610 --> 00:00:50,200
Have you ever looked at one of those optical
illusion drawings that looks like one thing,

20
00:00:50,200 --> 00:00:52,830
but when you keep staring at it, it looks
totally different?

21
00:00:52,830 --> 00:00:55,390
Well, the crew is studying this effect on
board the station.

22
00:00:55,390 --> 00:00:59,010
It's called Reversible Figures, and it's
a European experiment that looks at how the

23
00:00:59,010 --> 00:01:02,400
crew’s perception of these drawings can
change when up in space.

24
00:01:02,400 --> 00:01:06,080
This will help us understand how our brains
work differently when off the planet.

25
00:01:06,080 --> 00:01:09,500
The way astronauts perceive the space around
them is really important when doing things

26
00:01:09,500 --> 00:01:12,230
like spacewalks or steering the robotic arm
around.

27
00:01:12,230 --> 00:01:16,470
We are happy to say that a longstanding tradition
continues in Mission Control.

28
00:01:16,470 --> 00:01:20,690
The Shelton family here in Texas started sending
roses to the flight control team during STS-26,

29
00:01:20,690 --> 00:01:25,730
the first mission after the Challenger disaster
and they have sent them for every single flight

30
00:01:25,730 --> 00:01:26,730
since.

31
00:01:26,730 --> 00:01:30,270
There are red roses for each crew member and
a single white rose to represent those that

32
00:01:30,270 --> 00:01:33,060
have lost their lives in the pursuit of spaceflight.

33

00:01:33,060 --> 00:01:35,850
As always, we send our thanks to the Sheltons.