



**Space to Ground**

1  
00:00:03,040 --> 00:00:05,310  
"HOUSTON, STATION ON SPACE TO GROUND."

2  
00:00:05,310 --> 00:00:08,139  
WELCOME TO SPACE TO GROUND, I AM SANDRA JONES.

3  
00:00:08,139 --> 00:00:10,540  
THIS WEEK ASTRONAUTS PREPARED A SCIENCE EXPERIEMENT

4  
00:00:10,540 --> 00:00:13,370  
FOR MIDDLE SCHOOL STUDENTS AND TWO ASTRONAUTS VENTURED OUT

5  
00:00:13,370 --> 00:00:15,930  
THE SPACE STATION HATCH TO PERFORM A SPACEWALK

6  
00:00:15,930 --> 00:00:19,790  
TO REPLACE BATTERIES ON THE ORBITING LABORATORY.

7  
00:00:19,790 --> 00:00:24,750  
WORKING AT THE S-6 TRUSS OF THE STATION, BEYOND  
THE REACH OF THE CANADARM2,

8  
00:00:24,750 --> 00:00:27,730  
NASA ASTRONAUTS CHRIS CASSIDY AND BOB BEHNKEN SWAPPED OUT

9  
00:00:27,730 --> 00:00:30,300  
AND INSTALLED NEW BATTERIES FOR THE STATION.

10  
00:00:30,300 --> 00:00:31,930  
ON THURSDAY, THE PAIR SPENT THEIR DAY

11  
00:00:31,930 --> 00:00:35,320  
IN THE VACUUM OF SPACE REPLACING OLD NICKEL  
HYDROGEN BATTERIES

12  
00:00:35,320 --> 00:00:38,020  
WITH MORE POWERFUL LITHIUM ION BATTERIES.

13  
00:00:38,020 --> 00:00:39,650  
THESE BATTERY UPGRADES WILL STORE POWER

14  
00:00:39,650 --> 00:00:43,300  
FROM THE STATION'S SOLAR ARRAYS FOR YEARS  
TO COME.

15  
00:00:43,300 --> 00:00:46,280  
THE SPACEWALKING DUO WILL HEAD BACK OUT ONCE  
MORE.

16  
00:00:46,280 --> 00:00:48,510  
YOU CAN TUNE IN TO WATCH THE ACTION YOURSELF.

17  
00:00:48,510 --> 00:00:52,120  
LIVE COVERAGE STARTS AT 6 AM EASTERN TUESDAY.

18  
00:00:52,120 --> 00:00:53,870  
NOT EVERYONE CAN GO TO SPACE,

19  
00:00:53,870 --> 00:00:56,750  
BUT EVERYONE CAN SEE EARTH FROM AN ASTRONAUT'S PERSPECTIVE

20  
00:00:56,750 --> 00:01:00,220  
WITH THE SALLY RIDE EARTHKAM PROGRAM.

21  
00:01:00,220 --> 00:01:02,810  
THROUGH THIS PROGRAM, STUDENTS CAN REMOTELY  
CONTROL

22  
00:01:02,810 --> 00:01:05,970  
A DIGITAL CAMERA MOUNTED ON THE INTERNATIONAL SPACE STATION,

23  
00:01:05,970 --> 00:01:08,880  
AND USE IT TO TAKE PHOTOGRAPHS OF COASTLINES,

24  
00:01:08,880 --> 00:01:12,110  
MOUNTAIN RANGES AND OTHER INTERESTING FEATURES AND PHENOMENA.

25

00:01:12,110 --> 00:01:14,980

THE EARTHKAM TEAM POSTS THE STUDENTS' IMAGES  
ON THE INTERNET,

26

00:01:14,980 --> 00:01:17,670

WHERE THE PUBLIC AND PARTICIPATING CLASSROOMS CAN VIEW

27

00:01:17,670 --> 00:01:20,860

EARTH FROM THE UNIQUE VANTAGE POINT OF THE  
SPACE STATION.

28

00:01:20,860 --> 00:01:23,280

ON MONDAY, STATION COMMANDER CHRIS CASSIDY  
HELPED

29

00:01:23,280 --> 00:01:25,280

MIDDLE SCHOOL STUDENTS DO JUST THAT

30

00:01:25,280 --> 00:01:29,130

BY PREPARING THE EARTHKAM PAYLOAD FOR AN IMAGING SESSION.

31

00:01:29,130 --> 00:01:32,560

DURING A RECENT ORBIT OVER EGYPT AND THE NILE  
RIVER,

32

00:01:32,560 --> 00:01:34,240

NASA ASTRONAUT DOUG HURLEY SNAPPED

33

00:01:34,240 --> 00:01:36,640

THIS BREATHTAKING PHOTO OF THE AREA.

34

00:01:36,640 --> 00:01:40,030

IT PROMPTED SHUBHAM TO ASK THIS WEEK'S ASK  
NASA QUESTION.

35

00:01:40,030 --> 00:01:44,481

HE WANTS TO KNOW IF THE GREAT PYRAMIDS CAN  
BE SEEN FROM SPACE?

36

00:01:44,481 --> 00:01:46,630

THE GREAT PYRAMIDS ARE IN FACT ABLE TO BE  
SEEN

37

00:01:46,630 --> 00:01:49,549

FROM LOW EARTH ORBIT ABOARD THE INTERNATIONAL SPACE STATION

38

00:01:49,549 --> 00:01:51,939

AND HAVE BEEN CAPTURED IN IMAGES BY ASTRONAUTS

39

00:01:51,939 --> 00:01:56,869

LIVING AND WORKING 250 MILES ABOVE THE EARTH  
IN THE PAST.

40

00:01:56,869 --> 00:01:59,540

KEEP SENDING IN YOUR QUESTIONS USING THE HASHTAG #ASKNASA,

41

00:01:59,540 --> 00:02:01,780

WE'LL SEE YOU NEXT WEEK.

42

00:02:05,200 --> 00:02:08,220

"WE'RE COUNTING DOWN TO 20 CONTINUOUS  
YEARS