



1
00:00:06,740 --> 00:00:04,430
here at NASA we strive every day to

2
00:00:09,110 --> 00:00:06,750
reach new heights and explore the

3
00:00:11,240 --> 00:00:09,120
unknown so that what we do and learn

4
00:00:13,370 --> 00:00:11,250
will benefit all of humankind

5
00:00:15,530 --> 00:00:13,380
that's why when we were challenged to

6
00:00:18,710 --> 00:00:15,540
build an international scientific

7
00:00:20,689 --> 00:00:18,720
research laboratory in space we set out

8
00:00:28,410 --> 00:00:20,699
to engineer the most advanced spacecraft

9
00:00:33,240 --> 00:00:30,630
the International Space Station is an

10
00:00:36,090 --> 00:00:33,250
engineering marvel thousands of people

11
00:00:37,920 --> 00:00:36,100
from 15 different nations designed built

12
00:00:40,140 --> 00:00:37,930
and tested the hardware and software

13
00:00:41,940 --> 00:00:40,150

over the span of a decade with the

14

00:00:43,770 --> 00:00:41,950

completed pieces being connected for the

15

00:00:45,690 --> 00:00:43,780

very first time in space the

16

00:00:49,080 --> 00:00:45,700

collaboration and precision this took is

17

00:00:50,430 --> 00:00:49,090

absolutely incredible the scale of the

18

00:00:52,830 --> 00:00:50,440

space station is something that has

19

00:00:54,510 --> 00:00:52,840

never been seen before the finished

20

00:00:56,520 --> 00:00:54,520

product weighs nearly 1 million pounds

21

00:00:58,950 --> 00:00:56,530

is about the size of a football field

22

00:01:01,170 --> 00:00:58,960

and comfortably houses six people in

23

00:01:04,140 --> 00:01:01,180

low-earth orbit 250 miles above the

24

00:01:06,510 --> 00:01:04,150

Earth's surface the ISS is the only lab

25

00:01:07,820 --> 00:01:06,520

on or Octus planet that has been host to

26

00:01:10,560 --> 00:01:07,830

so many different types of research

27

00:01:13,230 --> 00:01:10,570

turbine experiments in biology earth

28

00:01:15,260 --> 00:01:13,240

science space science materials human

29

00:01:18,120 --> 00:01:15,270

research and even educational outreach

30

00:01:20,969 --> 00:01:18,130

the ISS is truly a unique place in space

31

00:01:22,380 --> 00:01:20,979

in every sense of the phrase the

32

00:01:23,850 --> 00:01:22,390

research already conducted on the space

33

00:01:25,530 --> 00:01:23,860

station we have discovered new and

34

00:01:27,420 --> 00:01:25,540

remarkable methods of doing things here

35

00:01:29,999 --> 00:01:27,430

on earth NASA and its international

36

00:01:32,190 --> 00:01:30,009

partners have detected smaller and

37

00:01:33,350 --> 00:01:32,200

lighter ultrasounds that travel faster

38

00:01:35,640 --> 00:01:33,360

than ever before

39

00:01:37,770 --> 00:01:35,650

introduced never before seen approaches

40

00:01:38,820 --> 00:01:37,780

to ending muscular dystrophy by

41

00:01:41,430 --> 00:01:38,830

achieving the highest quality

42

00:01:43,440 --> 00:01:41,440

crystalline structures in history made

43

00:01:45,390 --> 00:01:43,450

breakthroughs in vaccine development for

44

00:01:47,670 --> 00:01:45,400

Salmonella and the list goes on and on

45

00:01:50,980 --> 00:01:47,680

and with another 10 years of operation