



1
00:00:07,590 --> 00:00:04,150
in space everything has

2
00:00:10,230 --> 00:00:07,600
no gravity so you develop say a tissue

3
00:00:13,270 --> 00:00:10,240
like a kidney your science classes or

4
00:00:15,990 --> 00:00:13,280
liver tissue and then you can test

5
00:00:18,950 --> 00:00:16,000
different vaccines or metabolites drugs

6
00:00:20,630 --> 00:00:18,960
on that tissue in space much more easily

7
00:00:22,630 --> 00:00:20,640
than here at home because here at home

8
00:00:25,269 --> 00:00:22,640
when you test those cells they're flat

9
00:00:29,429 --> 00:00:25,279
but they grow in space 3d because

10
00:00:32,950 --> 00:00:31,189
what are some of the experience that in

11
00:00:33,910 --> 00:00:32,960
astrophysics that nasa is doing right

12
00:00:35,190 --> 00:00:33,920
now

13
00:00:36,950 --> 00:00:35,200

what are some of the experiments in

14

00:00:38,950 --> 00:00:36,960

astrophysics the

15

00:00:41,110 --> 00:00:38,960

astrophysics is of course extremely

16

00:00:43,990 --> 00:00:41,120

broad hubble is the most known of all

17

00:00:45,270 --> 00:00:44,000

our uh space telescopes but right now

18

00:00:48,150 --> 00:00:45,280

i'd say some of the most exciting

19

00:00:51,110 --> 00:00:48,160

research is coming from kepler kepler

20

00:00:53,830 --> 00:00:51,120

was launched just two years ago the main

21

00:00:59,750 --> 00:00:53,840

thing we are doing is looking for other

22

00:01:04,469 --> 00:01:02,310

we call them fresh outs

23

00:01:06,550 --> 00:01:04,479

and put you through the paces at nasa i

24

00:01:07,910 --> 00:01:06,560

didn't come to nasa till i was 35 though

25

00:01:10,070 --> 00:01:07,920

so you can have

26

00:01:14,230 --> 00:01:10,080

other careers and come back i came after

27

00:01:19,749 --> 00:01:16,310

that's a good question okay so we have

28

00:01:21,910 --> 00:01:19,759

flown just over 400 people in space

29

00:01:23,990 --> 00:01:21,920

total total um

30

00:01:26,149 --> 00:01:24,000

astronauts and cosmonauts there's more

31

00:01:28,630 --> 00:01:26,159

astronauts than anyone else right now we

32

00:01:30,149 --> 00:01:28,640

have about 70 active astronauts in the

33

00:01:31,510 --> 00:01:30,159

astronaut course so they're not all

34

00:01:33,030 --> 00:01:31,520

famous like

35

00:01:35,510 --> 00:01:33,040

john glenn and

36

00:01:36,469 --> 00:01:35,520

james webb who is not an astronaut but

37

00:01:38,870 --> 00:01:36,479

um

38

00:01:41,590 --> 00:01:38,880

yes over 400 people nearly 500 have

39

00:01:44,230 --> 00:01:41,600

flown in space

40

00:01:47,030 --> 00:01:44,240

president say we're going next

41

00:01:48,389 --> 00:01:47,040

where's where's nasa going next

42

00:01:49,910 --> 00:01:48,399

uh

43

00:01:51,749 --> 00:01:49,920

i feel bad i'm not hitting any more

44

00:01:53,990 --> 00:01:51,759

heart on the end right there as an

45

00:02:01,749 --> 00:01:54,000

engineer or as i did more on the

46

00:02:05,429 --> 00:02:02,870

these

47

00:02:07,429 --> 00:02:05,439

kids who have dedicated themselves to

48

00:02:09,350 --> 00:02:07,439

science 25

49

00:02:13,510 --> 00:02:09,360

and so nasa is developing this rocket

50

00:02:15,750 --> 00:02:13,520

the space launch system actually uh a

