



1
00:00:08,150 --> 00:00:05,670
hi my name is trevor smith i'm a

2
00:00:09,509 --> 00:00:08,160
aeronautical tech student at arizona

3
00:00:10,870 --> 00:00:09,519
state

4
00:00:12,950 --> 00:00:10,880
i'm also a pilot working on my

5
00:00:14,789 --> 00:00:12,960
instrument rating i had a question about

6
00:00:16,630 --> 00:00:14,799
spatial disorientation and there's a lot

7
00:00:18,710 --> 00:00:16,640
of talk

8
00:00:20,950 --> 00:00:18,720
in my pilot training about trusting your

9
00:00:23,910 --> 00:00:20,960
instruments and i was wondering how you

10
00:00:26,230 --> 00:00:23,920
counteract that being in space

11
00:00:27,990 --> 00:00:26,240
and any stories you might have about

12
00:00:29,990 --> 00:00:28,000
being spatially disoriented and how you

13
00:00:35,750 --> 00:00:30,000

get over that thanks hope you answer my

14

00:00:39,190 --> 00:00:37,430

your question about spatial orientation

15

00:00:42,549 --> 00:00:39,200

is actually a very valid question on

16

00:00:45,430 --> 00:00:42,559

earth typically you're disoriented in

17

00:00:47,670 --> 00:00:45,440

a planar sense but here in space it's

18

00:00:49,750 --> 00:00:47,680

very three-dimensional orbital mechanics

19

00:00:51,910 --> 00:00:49,760

is quite a bit different than uh the way

20

00:00:53,670 --> 00:00:51,920

we fly on earth

21

00:00:55,670 --> 00:00:53,680

and just as you do on

22

00:00:57,830 --> 00:00:55,680

on earth we do trust our instruments to

23

00:00:59,750 --> 00:00:57,840

get us into orbit once you're in orbit

24

00:01:01,270 --> 00:00:59,760

you're kind of on your own to adapt

25

00:01:04,390 --> 00:01:01,280

certainly here in the space station

26

00:01:07,109 --> 00:01:04,400

there is no up or down left or right the

27

00:01:09,190 --> 00:01:07,119

space station is is basically configured

28

00:01:10,789 --> 00:01:09,200

like a ship we have a forward we have an

29

00:01:11,990 --> 00:01:10,799

app we have a port we have a starboard

30

00:01:13,830 --> 00:01:12,000

and that's what we refer to everything

31

00:01:16,310 --> 00:01:13,840

within the space station and we put

32

00:01:17,990 --> 00:01:16,320

labels up on the space station that

33

00:01:19,350 --> 00:01:18,000

allow us to get to anywhere we want to

34

00:01:21,429 --> 00:01:19,360

get to basically just by following the

35

00:01:22,870 --> 00:01:21,439

directions but you got to remember it's

36

00:01:24,870 --> 00:01:22,880

very easy for us to be able to work on

37

00:01:26,230 --> 00:01:24,880

the ceilings as it is on the deck on

38

00:01:27,670 --> 00:01:26,240

working on the port side as well as on

39

00:01:29,109 --> 00:01:27,680

the starboard side so it really doesn't

40

00:01:30,870 --> 00:01:29,119

matter where you're at

41

00:01:31,990 --> 00:01:30,880

it's very easy to get disoriented so