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Canadá

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AXA

EXIT

NASA

DOTTE METCAL-LINDENBERGER

25

FGB



АРЫ

1  
00:00:09,216 --> 00:00:11,416  
Hi, I'm Dottie  
Metcalf-Lindenburger

2  
00:00:11,416 --> 00:00:14,016  
and I'm an astronaut here  
at Johnson Space Center.

3  
00:00:14,656 --> 00:00:18,136  
Why should you study math,  
science, and engineering?

4  
00:00:18,766 --> 00:00:21,206  
Why not? Because  
it is so exciting!

5  
00:00:21,206 --> 00:00:23,926  
Let me tell you, I've been  
studying it for a long time.

6  
00:00:23,996 --> 00:00:26,116  
Since I was your  
age, and even before.

7  
00:00:26,116 --> 00:00:29,876  
I became interested in space  
when I was in third grade.

8  
00:00:30,096 --> 00:00:31,096  
And that's because a lot

9  
00:00:31,096 --> 00:00:32,676  
of things were happening  
in the eighties.

10  
00:00:33,176 --> 00:00:34,866  
We had the first  
shuttle launches,

11

00:00:35,236 --> 00:00:37,416

we had the first American  
woman go into space,

12

00:00:37,816 --> 00:00:39,746

we had the first women  
doing spacewalks,

13

00:00:40,276 --> 00:00:43,526

and we had Halley's comet, we  
were getting information back

14

00:00:43,806 --> 00:00:47,386

from the Voyager and other  
exploratory spacecraft...

15

00:00:47,676 --> 00:00:51,026

and all this was coming in  
while I was in elementary

16

00:00:51,026 --> 00:00:52,156

and early middle school.

17

00:00:52,506 --> 00:00:54,246

And it made me super excited,

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00:00:54,406 --> 00:00:55,926

so I started studying  
as much as I could.

19

00:00:55,926 --> 00:01:00,506

I'd study in my classes,  
as well as on my weekends:

20

00:01:03,866 --> 00:01:07,356

looking through magazines,  
going to the planetarium,

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00:01:07,356 --> 00:01:10,246

asking my parents questions,

going outside and looking

22

00:01:10,246 --> 00:01:11,696

up at the stars and trying

23

00:01:11,696 --> 00:01:14,186

to find Halley's comet

(which didn't work very well,

24

00:01:14,876 --> 00:01:15,916

but that's a different story).

25

00:01:16,436 --> 00:01:19,406

I want you to be just as

equally excited about science,

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00:01:19,526 --> 00:01:21,956

engineering, math,

and technology...

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00:01:22,626 --> 00:01:23,516

and here's why.

28

00:01:24,056 --> 00:01:26,176

Because we're going places.

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00:01:26,386 --> 00:01:29,306

NASA's got big dreams too,

and I hope you do too.

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00:01:29,666 --> 00:01:32,826

We're thinking about exploring

beyond low Earth orbit,

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00:01:32,826 --> 00:01:34,696

and we're trying

to build spacecraft

32

00:01:34,696 --> 00:01:35,726

that will get us there.

33

00:01:35,886 --> 00:01:40,106

You guys are going to be the ones that go explore for us,

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00:01:40,106 --> 00:01:42,826

and we're going to be using your minds and your dreams

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00:01:42,916 --> 00:01:46,036

to propel us further and further into our solar system.

36

00:01:51,306 --> 00:01:53,976

When I was in seventh grade,

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00:01:54,206 --> 00:01:58,066

my life science teacher had this experiment that we did

38

00:01:58,136 --> 00:02:02,486

where we brought in all of our food garbage and food waste

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00:02:02,766 --> 00:02:06,266

and we actually turned that into ethanol, at the time,

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00:02:06,266 --> 00:02:07,936

and we ran his lawn mower.

41

00:02:08,166 --> 00:02:11,586

We went through a long process to make this ethanol.

42

00:02:11,986 --> 00:02:14,966

For a long time our hallways stunk really,

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00:02:14,966 --> 00:02:17,256

really bad because we were  
cooking up the food garbage,

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00:02:17,256 --> 00:02:19,316

and then we were  
putting yeast with it,

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00:02:19,316 --> 00:02:21,796

and then eventually  
we had to distill it,

46

00:02:21,796 --> 00:02:24,336

and it was a very  
smelly process!

47

00:02:24,386 --> 00:02:28,396

But during that process I  
started thinking about how some,

48

00:02:28,756 --> 00:02:32,566

these science principles we were  
learning could perhaps change

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00:02:32,616 --> 00:02:34,886

the way we do things  
here on Earth.

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00:02:34,886 --> 00:02:37,176

I realized that I  
enjoyed doing this,

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00:02:37,176 --> 00:02:40,156

and again science  
can take you places.

52

00:02:40,486 --> 00:02:42,946

And it can do good  
things for the Earth!

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00:02:47,866 --> 00:02:50,996

One day, when I was teaching  
my high school class,

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00:02:51,306 --> 00:02:54,296

one of my students  
asked me, "How do you go

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00:02:54,296 --> 00:02:55,416

to the bathroom in space?"

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00:02:56,066 --> 00:02:57,966

It's a great question  
- I didn't know what

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00:02:57,966 --> 00:02:58,996

that toilet looked like!

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00:02:59,786 --> 00:03:02,436

So I went to the NASA website,

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00:03:02,436 --> 00:03:04,926

found out just what the  
shuttle toilet looked like,

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00:03:05,206 --> 00:03:06,356

learned how you can use it,

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00:03:06,596 --> 00:03:09,006

and at the same time  
they were posting

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00:03:09,086 --> 00:03:11,366

for teachers to become  
astronauts.

63

00:03:11,366 --> 00:03:12,936

I thought, "This is  
the perfect job!"

64

00:03:13,356 --> 00:03:14,276

So I applied.

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00:03:14,606 --> 00:03:16,386

I knew that it would  
be very unlikely

66

00:03:16,386 --> 00:03:17,906

that I would get  
the job, but again,

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00:03:18,716 --> 00:03:20,506

I set my goals high  
and I worked hard.

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00:03:21,096 --> 00:03:26,256

And so over a course of a year  
between medical examinations

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00:03:26,256 --> 00:03:30,906

and between interview processes,  
I ended up getting my dream job.

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00:03:31,156 --> 00:03:34,996

And since I've been here at  
NASA I've been living my dream.

71

00:03:35,226 --> 00:03:36,686

It's been quite exciting.

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00:03:36,686 --> 00:03:38,956

I've met many new  
people, learned so much

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00:03:38,956 --> 00:03:41,326

about our Space Shuttle  
which is now retired,

74

00:03:41,326 --> 00:03:43,336

about the International  
Space Station,

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00:03:43,716 --> 00:03:46,716

and I'm learning more now about  
our international partners

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00:03:46,716 --> 00:03:48,226

and the vehicles  
that we're using

77

00:03:48,566 --> 00:03:50,996

to supply our International  
Space Station.

78

00:03:52,126 --> 00:03:53,796

So again, it comes back to you.

79

00:03:54,466 --> 00:03:55,696

What are you doing?

80

00:03:55,786 --> 00:03:57,076

What are you dreaming about?