Hi kids, today we're just a few miles away from NASA's Kennedy Space Center near Cape Canaveral, Florida. Hi everybody.

I'm Chris here at the Astrotech facility. NASA brings our satellites and their spacecrafts for final processing and checkup before they're launched into orbit, kind of like how you might double check your homework before you turn it in. This work is done by NASA engineers and scientists inside what is called a cleanroom. No, not that kind of cleanroom! Completely different, but don't worry about it.
very good friend of mine it's gonna take you and I inside one of these NASA clean rooms my friend just had one stipulation and that was that I needed to wear my clean suit fortunately for us I just picked mine up from the cleaners BAM let's go check out some cool space stuff Barbara Lambert is a multimedia photographer for NASA's Goddard Space Flight Center in Greenbelt Maryland she's here working in Cape Canaveral for an upcoming launch and agreed to show us around hey good morning Chris hello Barbara
00:01:04,750 --> 00:01:07,629
thanks for meeting us again we really

30 00:01:06,099 --> 00:01:09,250
appreciate it we're very excited that

31 00:01:07,629 --> 00:01:10,989
you're gonna show us a NASA cleanroom

32 00:01:09,250 --> 00:01:12,819
and so I even printed out my email that

33 00:01:10,989 --> 00:01:14,318
would make me remember to bring my clean

34 00:01:12,819 --> 00:01:16,840
suit that I picked up this morning from

35 00:01:14,319 --> 00:01:18,340
the cleaners I think you misunderstood I

36 00:01:16,840 --> 00:01:20,500
said you have to wear a clean suit

37 00:01:18,340 --> 00:01:22,868
cleaner than this I mean it smells

38 00:01:20,500 --> 00:01:24,099
pretty good I tell you what I'll take

39 00:01:22,868 --> 00:01:25,420
you down to the counting room and I'll

40 00:01:24,099 --> 00:01:26,799
show you what I mean okay well that's

41 00:01:25,420 --> 00:01:29,189
great I'll follow you okay thank you

42 00:01:26,799 --> 00:01:29,189
okay

43 00:01:31,719 --> 00:01:35,859
this is the galley room this is where

00:01:34,090 --> 00:01:37,270
the NASA scientists and engineers come

00:01:35,859 --> 00:01:37,750
to get dressed before they go into the

00:01:37,269 --> 00:01:39,549
cleanroom

00:01:37,750 --> 00:01:40,959
okay what's our first step well the

00:01:39,549 --> 00:01:42,670
first thing you have to do you know your

00:01:40,959 --> 00:01:44,500
shoes are pretty dirty right now so we

00:01:42,670 --> 00:01:46,359
need you to go over to the clean station

00:01:44,500 --> 00:01:48,769
here and get your shoes clean okay clean

00:01:46,359 --> 00:01:50,750
my shoes sound good

00:01:48,769 --> 00:01:51,859
well this is really neat I bet teachers

00:01:50,750 --> 00:01:53,030
would love to have something like this

00:01:51,859 --> 00:01:54,700
in their classroom we keep the floors

00:01:53,030 --> 00:01:56,780
clean

00:01:54,700 --> 00:01:58,159
okay great Barbara I believe my shoes
are clean so what's the next step well

even though you use the shoe cleaner I

still need you to stuff on the sticky

mat just to get off all the extra dust

and dirt okay and you're right it's very

sticky it's kinda like a glue trap for

guess maybe dirt and maybe gum on the

bottom of shoes okay now we get to empty

our pockets okay what are we looking for

taking everything out everything about

no cell phones okay going here and I've

got a few things that travel heavy I

have my mp3 player no no a mp3 player I

also have a marker no pencil nope come
on a hairbrush no a hair clip absolutely

not

my keys no make your infinite you can't

take them in how about the lipstick you

know what let's not worry about that why

do you have the lipstick it's okay it's

another story well you know the lipstick

brings up a good point

you can't take a lipstick you can't take

hairspray and you can't take Cologne

because they can be image the sensitive

instruments inside on the spacecraft

okay well that's a great tip I

appreciate that okay let's move on all
right now this is what I meant when I asked you to wear a clean suit okay well yeah that's definitely different than the suit I have absolutely the best thing to do is think about the cleanroom as being like an operating room everything inside has to be squeaky clean to protect the instrument and just as doctors and nurses have to wear special garments when they go into an operating room to protect the patient we have to wear special cleanroom suits so the fibers and the dirt and the hair and everything from your body don't get
on to the instruments inside ok great

101 00:03:25,560 --> 00:03:29,210 all right well let's get dressed all

102 00:03:26,909 --> 00:03:29,210 right thanks

103 00:03:44,110 --> 00:03:49,550 well after we finished putting on our gloves in our mask right here I'm sorry

104 00:03:46,370 --> 00:03:51,530 but you look like a bunny I'm honey what

105 00:03:49,550 --> 00:03:53,030 are you have is this the bunny suit is

106 00:03:51,530 --> 00:03:53,900 that why they call it the bunny suit

107 00:03:53,030 --> 00:03:55,280 yeah that's why they call it a bunny

108 00:03:55,280 --> 00:04:00,409 yeah is that a special pet named bunny

109 00:04:00,409 --> 00:04:04,159 get it rim shot honey I've got my gloves

110 00:04:04,159 --> 00:04:08,120 on so what's the next step okay we take

111 00:04:01,789 --> 00:04:05,179 a shower I just got dressed Barbara are

112 00:04:04,159 --> 00:04:06,439 you serious I shower have to take

113 00:04:05,180 --> 00:04:08,120 everything off take another shower it's
not that kind of a shower it's an air shower in here sorry yeah my mom would've bought that my mom clean it.

took an answer all right are you ready

sure let's say this okay this is the infamous air shower so how does this work

let's weekly clean so I can see the cool space stuff let's go I couldn't help but feel important kind of like I had the right stuff as I walked into the clean room even though I was specifically told by Barbara several times don't touch

anything okay Barbara that was really
interesting it's cool to see how much work it takes just to get into the facility.

you know without even have to work on the spacecraft yeah Wow a lot of people don't realize how much work is involved to manage a spacecraft in a cleanroom.

well sure this is NASA so we actually have a lot of work going on so now that we're done we just take these off of go by the garbage oh absolutely not we recycle everything and these gowns have to go to a special cleaning facility.

well I have the number for my cleaners
I'm sure still have that business card

on me no work no I said special cleaning

photo please okay well let's uh let's

get these off then okay well thanks

Barbara that was really great I

appreciate you taking the time to show

us how a clean suit and a cleaner were

used we know we deal with NASA

spacecraft

sure no problem Chris glad to help you

you know it's part of NASA's mission to

work with students and teachers to help

improve education well that's great

because this is an educational show so


I'll make sure I remember that thank you

00:05:41,370 --> 00:05:44,098
for your time I appreciate call me

00:05:42,718 --> 00:05:46,110
anytime I will thank you goodbye

00:05:44,098 --> 00:05:47,668
and thank you for joining us today there

00:05:46,110 --> 00:05:49,379
are so many cool things to see at NASA

00:05:47,668 --> 00:05:52,639
and here at the Kennedy Space Center I

00:05:49,379 --> 00:05:52,639
wonder where we should go next

00:06:00,889 --> 00:06:02,949
you