1
00:00:06,050 --> 00:00:04,579
thank you very much we're here at NASA's

2
00:00:07,670 --> 00:00:06,060
educator Resource Center with Jennifer

3
00:00:09,680 --> 00:00:07,680
Simmons and education specialists in the

4
00:00:11,780 --> 00:00:09,690
academic affairs office Jennifer tell me

5
00:00:14,930 --> 00:00:11,790
why education is so important to NASA

6
00:00:17,590 --> 00:00:14,940
yes the education strategic framework

7
00:00:21,710 --> 00:00:17,600
for the nasa office of education is to

8
00:00:23,929 --> 00:00:21,720
inspire engage educate and employ the

9
00:00:26,269 --> 00:00:23,939
future explorers for our agency many

10
00:00:28,730 --> 00:00:26,279
persons may not realize this but sixty

11
00:00:31,429 --> 00:00:28,740
percent of the nasa workforce is

12
00:00:33,880 --> 00:00:31,439
eligible for retirement therefore we

13
00:00:36,860 --> 00:00:33,890

utilize education programs ranging from

14
00:00:38,299 --> 00:00:36,870
kindergarten to post doctorate in order

15
00:00:39,740 --> 00:00:38,309
to inspire these students to pursue

16
00:00:42,799 --> 00:00:39,750
careers in science technology

17
00:00:43,880 --> 00:00:42,809
engineering and mathematics so you're

18
00:00:45,380 --> 00:00:43,890
looking for the people who are going to

19
00:00:47,779 --> 00:00:45,390
either build the rockets or right on the

20
00:00:49,729 --> 00:00:47,789
rockets in the future right exactly it

21
00:00:52,490 --> 00:00:49,739
is so important and one of those

22
00:00:54,650 --> 00:00:52,500
programs that we utilize is our educator

23
00:00:55,880 --> 00:00:54,660
resource center network of which I am

24
00:00:57,770 --> 00:00:55,890
the program manager here at Marshall

25
00:00:59,689 --> 00:00:57,780
Space Flight Center and here we are

26
00:01:00,950 --> 00:00:59,699
standing in front of our new education

27
00:01:02,540 --> 00:01:00,960
and training facility here at the US

28
00:01:03,619 --> 00:01:02,550
Space and Rocket Center it is really

29
00:01:04,969 --> 00:01:03,629
nice and I know you have some nice

30
00:01:06,109 --> 00:01:04,979
classrooms inside and I think bills

31
00:01:08,929 --> 00:01:06,119
already in there checking them out so

32
00:01:10,520 --> 00:01:08,939
let's go in and see yes let's go we're

33
00:01:12,350 --> 00:01:10,530
joined now by carla miller with the

34
00:01:13,880 --> 00:01:12,360
educator Resource Center and Carla

35
00:01:14,990 --> 00:01:13,890
before you show us around why don't you

36
00:01:17,300 --> 00:01:15,000
tell us a little bit about what the

37
00:01:19,100 --> 00:01:17,310
educator Resource Center is well what we

38
00:01:22,160 --> 00:01:19,110

do here is we provide professional

39
00:01:24,800 --> 00:01:22,170
development for teachers NASA produces

40
00:01:28,190 --> 00:01:24,810
materials that teachers can use in their

41
00:01:30,350 --> 00:01:28,200
classroom these materials are coincide

42
00:01:33,230 --> 00:01:30,360
with the national standards for science

43
00:01:36,890 --> 00:01:33,240
mathematics and technology and geography

44
00:01:38,929 --> 00:01:36,900
so the muck the sole purpose for us is

45
00:01:40,789 --> 00:01:38,939
to disseminate these materials and to

46
00:01:42,740 --> 00:01:40,799
train the teacher on how to use these

47
00:01:44,389 --> 00:01:42,750
materials in their classroom and one of

48
00:01:45,800 --> 00:01:44,399
the first places they can start is right

49
00:01:47,510 --> 00:01:45,810
here in this area what have you got back

50
00:01:49,490 --> 00:01:47,520
here we have what we call educator

51
00:01:51,170 --> 00:01:49,500
guides these educator guides have lesson

52
00:01:53,389 --> 00:01:51,180
plans and activities in these guides

53
00:01:55,580 --> 00:01:53,399
again they coincide with the national

54
00:01:58,100 --> 00:01:55,590
standards for science mathematics and

55
00:02:00,620 --> 00:01:58,110
technology fantastic but what about the

56
00:02:02,149 --> 00:02:00,630
teacher who maybe needs a little bit

57
00:02:03,260 --> 00:02:02,159
more the handouts are aren't quite

58
00:02:05,270 --> 00:02:03,270
enough perhaps they need to learn a

59
00:02:07,550 --> 00:02:05,280
little bit more okay well we're able to

60
00:02:10,639 --> 00:02:07,560
help the teacher we facilitate workshops

61
00:02:12,800 --> 00:02:10,649
here we bring in scientists engine

62
00:02:15,440 --> 00:02:12,810
years and we also facilitate workshops

63
00:02:17,600 --> 00:02:15,450

ourselves we're somewhat of an expert

64
00:02:20,390 --> 00:02:17,610
when it comes to NASA materials and

65
00:02:22,910 --> 00:02:20,400
education so the teachers can actually

66
00:02:25,520 --> 00:02:22,920
step into the classroom and basically go

67
00:02:27,500 --> 00:02:25,530
back to school correct they can what we

68
00:02:30,979 --> 00:02:27,510
do here is we train the teacher we

69
00:02:32,479 --> 00:02:30,989
excite the teacher about NASA we excite

70
00:02:35,240 --> 00:02:32,489
them so they can take it back to their

71
00:02:37,280 --> 00:02:35,250
classroom and excite their students

72
00:02:38,599 --> 00:02:37,290
Carla what about the teacher who's from

73
00:02:40,280 --> 00:02:38,609
out of town wasn't able to make it here

74
00:02:42,740 --> 00:02:40,290
in Huntsville well we have a program

75
00:02:44,119 --> 00:02:42,750
that utilizes the new technologies that

76
00:02:45,610 --> 00:02:44,129
are out there it's called the Digital

77
00:02:47,839 --> 00:02:45,620
Learning Network let's go check that out

78
00:02:49,430 --> 00:02:47,849
I'm here with Scott Anderson in the

79
00:02:51,289 --> 00:02:49,440
Digital Learning Network and Scott this

80
00:02:53,330 --> 00:02:51,299
looks a lot like a TV studio to me

81
00:02:55,610 --> 00:02:53,340
that's exactly we have basically a

82
00:02:58,220 --> 00:02:55,620
full-scale television studio that we use

83
00:03:00,099 --> 00:02:58,230
to put together programming that we

84
00:03:02,509 --> 00:03:00,109
deliver to schools across the country

85
00:03:04,699 --> 00:03:02,519
NASA's Digital Learning Network offers

86
00:03:06,280 --> 00:03:04,709
three main types of programming we offer

87
00:03:08,780 --> 00:03:06,290
professional development for educators

88
00:03:10,819 --> 00:03:08,790

student programming where we which is

89
00:03:12,979 --> 00:03:10,829
basically classroom modules and then we

90
00:03:14,539 --> 00:03:12,989
also offer special events where we

91
00:03:16,970 --> 00:03:14,549
connect NASA scientists and engineers

92
00:03:18,559 --> 00:03:16,980
with students across the country you

93
00:03:20,240 --> 00:03:18,569
also have Marshall scientists on there

94
00:03:21,830 --> 00:03:20,250
sometimes right that's exactly right we

95
00:03:23,390 --> 00:03:21,840
have several scientists that we do work

96
00:03:25,369 --> 00:03:23,400
with but we're always looking for more

97
00:03:26,869 --> 00:03:25,379
for more scientists and engineers to

98
00:03:27,830 --> 00:03:26,879
come connect with classrooms all right

99
00:03:29,240 --> 00:03:27,840
you get a lot of interesting things

100
00:03:30,830 --> 00:03:29,250
around here tell me about some of the

101
00:03:32,300 --> 00:03:30,840
experiments that you showed these

102
00:03:34,250 --> 00:03:32,310
students well right here what we're

103
00:03:37,189 --> 00:03:34,260
looking at is our set that we just

104
00:03:38,449 --> 00:03:37,199
recently used for a program to think six

105
00:03:40,250 --> 00:03:38,459
classrooms around the country and the

106
00:03:42,020 --> 00:03:40,260
topic was living and working in space

107
00:03:44,960 --> 00:03:42,030
often times when crew members go to

108
00:03:46,399 --> 00:03:44,970
space they have a unique environment

109
00:03:48,530 --> 00:03:46,409
that they have to work in and so we do a

110
00:03:49,849 --> 00:03:48,540
show where we teach students all about

111
00:03:52,309 --> 00:03:49,859
that so that's kind of what we have here

112
00:03:54,710 --> 00:03:52,319
all right what's over here over here is

113
00:03:57,559 --> 00:03:54,720

another set and this is where we do a

114
00:03:59,210 --> 00:03:57,569
lot of our programming and as you can

115
00:04:01,189 --> 00:03:59,220
see we got lots of gizmos and gadgets

116
00:04:04,099 --> 00:04:01,199
that we use to make the programming fun

117
00:04:05,869 --> 00:04:04,109
and entertaining but what's up on screen

118
00:04:07,580 --> 00:04:05,879
is now a program offered on a Marshall

119
00:04:09,860 --> 00:04:07,590
called the toys and space investigation

120
00:04:12,140 --> 00:04:09,870
and that's where students connect with

121
00:04:13,640 --> 00:04:12,150
NASA and prior to connecting with NASA

122
00:04:15,229 --> 00:04:13,650
they've done experiments in the

123
00:04:17,509 --> 00:04:15,239
classroom where they've investigated the

124
00:04:19,550 --> 00:04:17,519
physics of toys and then they connect

125
00:04:21,469 --> 00:04:19,560
with NASA trying to trying to learn the

126
00:04:23,320 --> 00:04:21,479
answer to the question will this toy

127
00:04:24,760 --> 00:04:23,330
work in space and so

128
00:04:26,890 --> 00:04:24,770
they can see you there and you can see

129
00:04:28,779 --> 00:04:26,900
them and then exactly the the whole

130
00:04:30,939 --> 00:04:28,789
conference is interactive it's two-way

131
00:04:32,409 --> 00:04:30,949
video and two-way audio and so

132
00:04:33,969 --> 00:04:32,419
throughout the conference I can see the

133
00:04:36,550 --> 00:04:33,979
students and when they ask questions I

134
00:04:38,260 --> 00:04:36,560
can look for facial expressions and its

135
00:04:39,580 --> 00:04:38,270
interactive so anytime they have a

136
00:04:41,890 --> 00:04:39,590
question that can raise a hand or just

137
00:04:43,089 --> 00:04:41,900
say hey hey what about this and yeah

138
00:04:44,529 --> 00:04:43,099

it's interactive what a great

139
00:04:48,129 --> 00:04:44,539
educational tool thanks for showing us

140
00:04:49,510 --> 00:04:48,139
around Scott thank you we got to visit a

141
00:04:51,189 --> 00:04:49,520
couple of really neat facilities out

142
00:04:53,140 --> 00:04:51,199
here at Marshall for today's focus on

143
00:04:54,520 --> 00:04:53,150
Marshall but we'll be coming back to the

144
00:04:57,309 --> 00:04:54,530
cedar room to show you how they're

145
00:04:58,839 --> 00:04:57,319
integrating a virtual reality suit into

146
00:04:59,740 --> 00:04:58,849
the cedar room in a few months all right

147
00:05:01,360 --> 00:04:59,750
I don't know if they're gonna let you in