



1
00:00:28,830 --> 00:00:26,550
this flame's a pretty hot fun so if we

2
00:00:31,109 --> 00:00:28,840
looked at a star which would be a hot

3
00:00:33,190 --> 00:00:31,119
star blue one and a cold one would be

4
00:00:35,510 --> 00:00:33,200
red right okay how to get students

5
00:00:36,950 --> 00:00:35,520
excited about learning science that's a

6
00:00:39,670 --> 00:00:36,960
question that teachers across the

7
00:00:42,229 --> 00:00:39,680
country face daily and the answer may be

8
00:00:44,229 --> 00:00:42,239
in the stars along with the next space

9
00:00:46,630 --> 00:00:44,239
shuttle nasa will be launching a new

10
00:00:49,110 --> 00:00:46,640
education program designed to give

11
00:00:51,189 --> 00:00:49,120
teachers and students a big lift the

12
00:00:53,350 --> 00:00:51,199
program is called space classroom

13
00:00:55,670 --> 00:00:53,360

assignment the stars it will happen

14

00:00:57,670 --> 00:00:55,680

during astro one a space lab mission

15

00:00:59,670 --> 00:00:57,680

dedicated to astronomy

16

00:01:01,590 --> 00:00:59,680

our purpose is to involve teachers and

17

00:01:03,990 --> 00:01:01,600

their students in the excitement of

18

00:01:06,149 --> 00:01:04,000

space shuttle science missions and also

19

00:01:08,149 --> 00:01:06,159

to provide educators with some

20

00:01:10,390 --> 00:01:08,159

additional teaching tools that they can

21

00:01:12,550 --> 00:01:10,400

use in their classrooms at the heart of

22

00:01:15,030 --> 00:01:12,560

the space classroom program is a lesson

23

00:01:17,670 --> 00:01:15,040

on the electromagnetic spectrum taught

24

00:01:19,350 --> 00:01:17,680

by science astronauts in space as they

25

00:01:21,190 --> 00:01:19,360

orbit the earth there will be

26
00:01:22,870 --> 00:01:21,200
demonstrations from a classroom within

27
00:01:24,469 --> 00:01:22,880
the astro one control center in

28
00:01:26,469 --> 00:01:24,479
huntsville alabama

29
00:01:29,030 --> 00:01:26,479
and an opportunity for students to ask

30
00:01:30,390 --> 00:01:29,040
questions of the astronauts in orbit

31
00:01:32,710 --> 00:01:30,400
students from five states will

32
00:01:33,990 --> 00:01:32,720
participate at two nasa facilities the

33
00:01:36,069 --> 00:01:34,000
marshall space flight center in

34
00:01:38,710 --> 00:01:36,079
huntsville and the goddard space flight

35
00:01:40,390 --> 00:01:38,720
center in greenbelt maryland students at

36
00:01:42,469 --> 00:01:40,400
the marshall center will take part in

37
00:01:44,630 --> 00:01:42,479
three full days of activities that

38
00:01:46,950 --> 00:01:44,640

include laboratory sessions sitting

39

00:01:48,469 --> 00:01:46,960

alongside space lab controllers as they

40

00:01:51,109 --> 00:01:48,479

direct science activities aboard the

41

00:01:51,990 --> 00:01:51,119

shuttle and going to nearby u.s space

42

00:01:53,830 --> 00:01:52,000

camp

43

00:01:55,190 --> 00:01:53,840

space classroom subject matter is

44

00:01:57,510 --> 00:01:55,200

similar to what these students could

45

00:01:58,789 --> 00:01:57,520

expect in their home schools the kids in

46

00:02:00,709 --> 00:01:58,799

space classroom will be doing some

47

00:02:02,230 --> 00:02:00,719

hands-on activities to explain the

48

00:02:04,149 --> 00:02:02,240

characteristics and components of the

49

00:02:06,389 --> 00:02:04,159

electromagnetic spectrum and that is a

50

00:02:08,309 --> 00:02:06,399

basic physics concept we'll be talking

51
00:02:10,070 --> 00:02:08,319
about not only the visible light but

52
00:02:12,150 --> 00:02:10,080
also invisible forms of energy such as

53
00:02:14,550 --> 00:02:12,160
ultraviolet and x-ray although these

54
00:02:16,309 --> 00:02:14,560
ideas are basic space classroom will

55
00:02:17,589 --> 00:02:16,319
give students a new perspective on their

56
00:02:18,710 --> 00:02:17,599
significance

57
00:02:21,270 --> 00:02:18,720
it's one thing to learn about a

58
00:02:23,670 --> 00:02:21,280
scientific concept in the classroom

59
00:02:26,790 --> 00:02:23,680
but it's something else entirely to see

60
00:02:28,630 --> 00:02:26,800
how that concept is being applied

61
00:02:30,229 --> 00:02:28,640
by astronauts aboard the space shuttle

62
00:02:32,630 --> 00:02:30,239
for example

63
00:02:35,270 --> 00:02:32,640

and that link between the classroom and

64

00:02:38,070 --> 00:02:35,280

the real world is what space classroom

65

00:02:40,309 --> 00:02:38,080

is all about nasa hopes this new program

66

00:02:42,470 --> 00:02:40,319

will help teachers bring science down to

67

00:02:44,309 --> 00:02:42,480

earth for their students by taking the

68

00:02:46,070 --> 00:02:44,319

classroom to space

69

00:03:08,309 --> 00:02:46,080

in huntsville alabama this is mike

70

00:03:11,830 --> 00:03:09,670

you know i'll tell you tell you guys

71

00:03:14,869 --> 00:03:11,840

something we we had a uh

72

00:03:17,190 --> 00:03:14,879

governor hunt is here but we had a

73

00:03:18,790 --> 00:03:17,200

governor's conference the governors from

74

00:03:20,470 --> 00:03:18,800

all the states

75

00:03:22,790 --> 00:03:20,480

and i don't think any president has had

76

00:03:25,350 --> 00:03:22,800

that before but one of the goals

77

00:03:26,949 --> 00:03:25,360

a national goal first time they ever set

78

00:03:29,990 --> 00:03:26,959

national goals

79

00:03:33,910 --> 00:03:30,000

was to have much more

80

00:03:35,990 --> 00:03:33,920

literacy and fluency in math and science

81

00:03:38,070 --> 00:03:36,000

and so you're out on the cutting edge i

82

00:03:40,149 --> 00:03:38,080

mean just the knowledge of this but but

83

00:03:42,149 --> 00:03:40,159

it's a very important goal in

84

00:03:44,470 --> 00:03:42,159

keeping our country competitive and

85

00:03:47,270 --> 00:03:44,480

keeping us

86

00:03:49,030 --> 00:03:47,280

continuing to to lead the world in

87

00:03:53,830 --> 00:03:49,040

in science and math this whole

88

00:03:58,550 --> 00:03:56,630

um each element puts off its own color

89

00:04:00,630 --> 00:03:58,560

and an emission emits a certain color

90

00:04:04,789 --> 00:04:00,640

and we see the copper makes a nice green

91

00:04:06,710 --> 00:04:04,799

flame every time so but that's just fine

92

00:04:09,750 --> 00:04:06,720

have you sit down you can't mr if you

93

00:04:19,270 --> 00:04:09,760

would go ahead and try this one

94

00:04:21,909 --> 00:04:20,069

sure

95

00:04:23,670 --> 00:04:21,919

what do i got here then okay you have

96

00:04:26,230 --> 00:04:23,680

lithium and lithium always makes a red

97

00:04:28,390 --> 00:04:26,240

flame so if we saw this red flame again

98

00:04:30,629 --> 00:04:28,400

we would know that we had lithium the

99

00:04:32,790 --> 00:04:30,639

space classroom lessons will enable

100

00:04:33,990 --> 00:04:32,800

students to hear a lecture by the

101
00:04:36,710 --> 00:04:34,000
shuttle team

102
00:04:38,870 --> 00:04:36,720
and then interact with questions

103
00:04:40,550 --> 00:04:38,880
and discussion

104
00:04:44,070 --> 00:04:40,560
the entire learning session will be

105
00:04:46,950 --> 00:04:44,080
carried by the nasa select to classrooms

106
00:04:48,950 --> 00:04:46,960
across the country

107
00:04:51,030 --> 00:04:48,960
what a powerful way

108
00:04:54,629 --> 00:04:51,040
to teach our kids

109
00:04:56,790 --> 00:04:54,639
the importance of space

110
00:04:59,510 --> 00:04:56,800
what a great example of the fa of the

111
00:05:04,390 --> 00:04:59,520
effect of our space program

112
00:05:06,150 --> 00:05:04,400
on education well we're seeing that test

113
00:05:07,510 --> 00:05:06,160

scores are declining in math and science

114

00:05:09,510 --> 00:05:07,520

and that shows us that kids are really

115

00:05:10,790 --> 00:05:09,520

losing interest in math and science they

116

00:05:12,390 --> 00:05:10,800

seem to think that it's something that

117

00:05:15,029 --> 00:05:12,400

only geniuses can do and it's not

118

00:05:16,790 --> 00:05:15,039

applicable to their lives but we think

119

00:05:18,070 --> 00:05:16,800

that it really is a day-to-day thing

120

00:05:19,830 --> 00:05:18,080

teachers are losing sight of that and

121

00:05:22,070 --> 00:05:19,840

they need to be encouraged to teach it

122

00:05:23,909 --> 00:05:22,080

day-to-day in the classroom kids need to

123

00:05:25,749 --> 00:05:23,919

see that it's something that would help

124

00:05:27,670 --> 00:05:25,759

them in their future as a consumer and a

125

00:05:29,029 --> 00:05:27,680

voter and also math and science are real

126

00:05:31,510 --> 00:05:29,039

things that they could go into as a

127

00:05:32,950 --> 00:05:31,520

career does that make sense so light

128

00:05:34,629 --> 00:05:32,960

always travels

129

00:05:37,590 --> 00:05:34,639

at the same speed and they have