



1
00:00:43,350 --> 00:00:40,389
by the year 2000 the united states will

2
00:00:46,630 --> 00:00:43,360
have its first laboratory in space

3
00:00:49,029 --> 00:00:46,640
with the design made of modular sections

4
00:00:52,549 --> 00:00:49,039
the space station will be a work center

5
00:00:53,990 --> 00:00:52,559
in orbit and will offer many benefits to

6
00:00:56,709 --> 00:00:54,000
our world

7
00:00:59,590 --> 00:00:56,719
utilizing the scientific analogy of the

8
00:01:02,549 --> 00:00:59,600
space station in educational settings

9
00:01:04,869 --> 00:01:02,559
can pave the way to ensure that our

10
00:01:07,270 --> 00:01:04,879
nation will have a qualified pool of

11
00:01:10,789 --> 00:01:07,280
scientists engineers computer

12
00:01:14,390 --> 00:01:10,799
specialists researchers and technicians

13
00:01:19,030 --> 00:01:14,400

who will lead us into the 21st century

14

00:01:21,429 --> 00:01:19,040

as the space explorers of the future

15

00:01:24,789 --> 00:01:21,439

using the space station as a way to

16

00:01:27,910 --> 00:01:24,799

enhance instruction is exemplified at

17

00:01:29,670 --> 00:01:27,920

the anton gradina primary achievement

18

00:01:32,310 --> 00:01:29,680

elementary school

19

00:01:35,749 --> 00:01:32,320

in cleveland ohio

20

00:01:38,390 --> 00:01:35,759

students teachers parents and the entire

21

00:01:41,670 --> 00:01:38,400

community have come together with the

22

00:01:43,910 --> 00:01:41,680

help of the nasa lewis research center

23

00:01:46,630 --> 00:01:43,920

the cleveland metropolitan housing

24

00:01:49,030 --> 00:01:46,640

authority cmha

25

00:01:50,230 --> 00:01:49,040

and the cleveland city school district

26

00:01:53,749 --> 00:01:50,240

to form

27

00:01:57,190 --> 00:01:53,759

the educational empowerment project

28

00:02:00,709 --> 00:01:57,200

a project that entices students to

29

00:02:03,190 --> 00:02:00,719

imagine themselves as future astronauts

30

00:02:06,950 --> 00:02:03,200

on a mission into space

31

00:02:09,669 --> 00:02:06,960

but for the students at anton the future

32

00:02:13,430 --> 00:02:09,679

starts today

33

00:02:15,750 --> 00:02:13,440

anton gradina is located near a cmaj

34

00:02:18,309 --> 00:02:15,760

public housing development

35

00:02:21,589 --> 00:02:18,319

the poverty rate for this area is

36

00:02:24,550 --> 00:02:21,599

extremely high the anton project

37

00:02:26,550 --> 00:02:24,560

represents a partnership between cmha

38

00:02:27,830 --> 00:02:26,560

nasa lewis and the cleveland public

39

00:02:29,990 --> 00:02:27,840

schools

40

00:02:31,350 --> 00:02:30,000

the intent of the project is to empower

41

00:02:33,830 --> 00:02:31,360

parents to better work with their

42

00:02:35,910 --> 00:02:33,840

children in science activities

43

00:02:37,509 --> 00:02:35,920

a lot of other organizations and

44

00:02:38,869 --> 00:02:37,519

individuals have joined us in the

45

00:02:41,110 --> 00:02:38,879

endeavor

46

00:02:42,949 --> 00:02:41,120

in fact the project demonstrates what we

47

00:02:44,309 --> 00:02:42,959

can accomplish when we work together as

48

00:02:46,390 --> 00:02:44,319

a team

49

00:02:48,470 --> 00:02:46,400

in addition the project has attracted a

50

00:02:51,030 --> 00:02:48,480

lot of national attention

51
00:02:53,270 --> 00:02:51,040
including visits to anton gradina by

52
00:02:55,830 --> 00:02:53,280
congressman louis stokes nasa

53
00:02:57,910 --> 00:02:55,840
administrator dan golden and astronaut

54
00:02:59,470 --> 00:02:57,920
charles bolden

55
00:03:01,830 --> 00:02:59,480
the

56
00:03:04,070 --> 00:03:01,840
1991-92 school year

57
00:03:06,070 --> 00:03:04,080
marked the beginning of a full-scale

58
00:03:09,190 --> 00:03:06,080
aerospace program

59
00:03:11,589 --> 00:03:09,200
the ultimate goal was to build the space

60
00:03:14,390 --> 00:03:11,599
station habitat module

61
00:03:16,949 --> 00:03:14,400
the students named their space station

62
00:03:19,509 --> 00:03:16,959
space station harmony

63
00:03:23,910 --> 00:03:19,519

their space station would serve as the

64

00:03:26,949 --> 00:03:23,920

site for many space related activities

65

00:03:29,589 --> 00:03:26,959

in order to build a habitat it was

66

00:03:34,309 --> 00:03:29,599

important for the students teachers and

67

00:03:37,430 --> 00:03:34,319

parents to learn more about space

68

00:03:40,470 --> 00:03:37,440

for the students monthly assemblies and

69

00:03:43,830 --> 00:03:40,480

small classroom sessions were held to

70

00:03:46,789 --> 00:03:43,840

explore scientific concepts as they

71

00:03:48,229 --> 00:03:46,799

relate to humankind on earth and in

72

00:03:51,030 --> 00:03:48,239

space

73

00:03:53,910 --> 00:03:51,040

food and nutrition were studied to show

74

00:03:57,670 --> 00:03:53,920

the importance of having a good diet

75

00:04:00,789 --> 00:03:57,680

that includes the four major food groups

76

00:04:03,350 --> 00:04:00,799

other examples of food and nutrition

77

00:04:05,670 --> 00:04:03,360

demonstrated to the students how food is

78

00:04:13,030 --> 00:04:05,680

packaged for space and how the

79

00:04:13,040 --> 00:04:17,110

in space as it does on the earth

80

00:04:23,030 --> 00:04:20,229

another activity explained to students

81

00:04:25,590 --> 00:04:23,040

how to say no to drugs

82

00:04:26,830 --> 00:04:25,600

and how to stay in good health by doing

83

00:04:29,909 --> 00:04:26,840

daily

84

00:04:33,270 --> 00:04:29,919

exercises the students underwent some

85

00:04:36,150 --> 00:04:33,280

pretty vigorous exercise routines to

86

00:04:39,670 --> 00:04:36,160

show what astronauts must do to help

87

00:04:42,310 --> 00:04:39,680

stay physically fit in space

88

00:04:45,990 --> 00:04:42,320

scientific concepts introduced to the

89

00:04:49,430 --> 00:04:46,000

students about newton's laws of motion

90

00:04:51,830 --> 00:04:49,440

including action reaction activities

91

00:04:54,469 --> 00:04:51,840

held the student's interests as they

92

00:04:57,270 --> 00:04:54,479

were amused and enthused with this

93

00:04:59,670 --> 00:04:57,280

unique experiment

94

00:05:02,390 --> 00:04:59,680

some of the small classroom sessions

95

00:05:04,230 --> 00:05:02,400

demonstrated magnetism

96

00:05:07,510 --> 00:05:04,240

aeronautics

97

00:05:10,950 --> 00:05:07,520

and how humankind has changed their mode

98

00:05:13,909 --> 00:05:10,960

of transportation from horse and buggy

99

00:05:15,749 --> 00:05:13,919

all the way up to the high-tech way of

100

00:05:17,909 --> 00:05:15,759

life we have today

101
00:05:21,990 --> 00:05:17,919
traveling in space with the help of

102
00:05:24,150 --> 00:05:22,000
today's space transportation system

103
00:05:26,469 --> 00:05:24,160
the students at anton cuadina were

104
00:05:28,550 --> 00:05:26,479
having so much fun learning how to do

105
00:05:31,270 --> 00:05:28,560
experiments

106
00:05:33,830 --> 00:05:31,280
learning how to grow things

107
00:05:36,390 --> 00:05:33,840
learning how to measure things

108
00:05:38,550 --> 00:05:36,400
and learning about comets

109
00:05:41,590 --> 00:05:38,560
that they didn't realize they were

110
00:05:46,629 --> 00:05:44,550
claire friedman executive director of

111
00:05:49,110 --> 00:05:46,639
the cleveland metropolitan housing

112
00:05:51,670 --> 00:05:49,120
authority cmaj

113
00:05:54,390 --> 00:05:51,680

shares her thoughts about the program

114

00:05:56,310 --> 00:05:54,400

and what she calls an integrated

115

00:05:58,469 --> 00:05:56,320

approach to teaching

116

00:06:00,790 --> 00:05:58,479

i just think it's fantastic i'm so

117

00:06:03,830 --> 00:06:00,800

pleased to be

118

00:06:06,390 --> 00:06:03,840

involved in this with the parents of our

119

00:06:07,350 --> 00:06:06,400

housing project that that this school

120

00:06:10,390 --> 00:06:07,360

serves

121

00:06:12,550 --> 00:06:10,400

and everyone's very excited about it

122

00:06:15,270 --> 00:06:12,560

the other popular word that's used these

123

00:06:18,230 --> 00:06:15,280

days is holistic

124

00:06:20,550 --> 00:06:18,240

and we do buy into that and and believe

125

00:06:23,990 --> 00:06:20,560

that there should be more of this kind

126
00:06:26,629 --> 00:06:24,000
of effort more of a holistic

127
00:06:27,830 --> 00:06:26,639
delivery of services to our families

128
00:06:30,469 --> 00:06:27,840
and

129
00:06:33,350 --> 00:06:30,479
it's absolutely critical that the

130
00:06:35,909 --> 00:06:33,360
housing authority get more involved in

131
00:06:36,629 --> 00:06:35,919
programs such as this that that opens

132
00:06:42,230 --> 00:06:36,639
the

133
00:06:47,430 --> 00:06:42,240
this

134
00:06:49,430 --> 00:06:47,440
parents attended numerous workshops

135
00:06:52,070 --> 00:06:49,440
throughout the school year

136
00:06:54,550 --> 00:06:52,080
to learn about the space project so they

137
00:06:56,390 --> 00:06:54,560
could share in their child's academic

138
00:06:59,749 --> 00:06:56,400

progress

139

00:07:02,309 --> 00:06:59,759

parents enjoyed an exciting field trip

140

00:07:07,350 --> 00:07:02,319

to nasa lewis research center for

141

00:07:13,670 --> 00:07:10,629

plans were drawn up and purchases made

142

00:07:16,150 --> 00:07:13,680

of materials creatively developed to

143

00:07:19,990 --> 00:07:16,160

make practically everything needed for

144

00:07:25,189 --> 00:07:22,870

with the help of community organizations

145

00:07:27,909 --> 00:07:25,199

and nasa representatives

146

00:07:32,469 --> 00:07:27,919

parents worked hard to construct the

147

00:07:35,110 --> 00:07:32,479

foundation for space station harmony

148

00:07:39,430 --> 00:07:35,120

mel jacobs has been a third grade

149

00:07:41,830 --> 00:07:39,440

teacher at anton cudina for 24 years and

150

00:07:46,070 --> 00:07:41,840

is impressed with the results of the

151
00:07:47,589 --> 00:07:46,080
aerospace project it's hands-on it's not

152
00:07:50,070 --> 00:07:47,599
something they have to read in the book

153
00:07:51,909 --> 00:07:50,080
they have to just work with it and this

154
00:07:54,790 --> 00:07:51,919
way they're able to work with it

155
00:07:56,550 --> 00:07:54,800
as a hands-on experience depending on

156
00:07:59,029 --> 00:07:56,560
the program by this type of program

157
00:08:00,790 --> 00:07:59,039
absolutely if it's a beneficial program

158
00:08:02,309 --> 00:08:00,800
no question about it

159
00:08:04,790 --> 00:08:02,319
sometimes programs have to be looked

160
00:08:06,309 --> 00:08:04,800
into more in depth but this one worked

161
00:08:08,550 --> 00:08:06,319
out perfectly for the students the

162
00:08:13,110 --> 00:08:08,560
teachers and the community with cmha and

163
00:08:16,230 --> 00:08:13,120

nasa and anton godina working together

164

00:08:19,350 --> 00:08:16,240

staff at anton godina incorporated the

165

00:08:21,990 --> 00:08:19,360

space theme across the curriculum

166

00:08:24,469 --> 00:08:22,000

utilizing science and math concepts

167

00:08:27,350 --> 00:08:24,479

through the aerospace mission

168

00:08:30,390 --> 00:08:27,360

the teachers also involved themselves

169

00:08:32,870 --> 00:08:30,400

with numerous space and technological

170

00:08:35,190 --> 00:08:32,880

experiences and training

171

00:08:37,750 --> 00:08:35,200

to assist them with their classroom

172

00:08:42,149 --> 00:08:39,430

okay

173

00:08:44,870 --> 00:08:42,159

teachers and support staff develop

174

00:08:47,990 --> 00:08:44,880

lesson plans bulletin boards

175

00:08:50,389 --> 00:08:48,000

classroom and hall displays around the

176
00:08:53,670 --> 00:08:50,399
space theme to provide the students with

177
00:08:56,470 --> 00:08:53,680
the space related learning environment

178
00:08:59,430 --> 00:08:56,480
teachers also develop contests for the

179
00:09:02,870 --> 00:08:59,440
students to design a school logo for the

180
00:09:05,509 --> 00:09:02,880
space project and a contest to name the

181
00:09:07,990 --> 00:09:05,519
space station habitat

182
00:09:10,949 --> 00:09:08,000
the time has finally come for the

183
00:09:14,949 --> 00:09:10,959
liftoff of space station harmony

184
00:09:24,790 --> 00:09:14,959
everyone is so excited especially the

185
00:09:29,030 --> 00:09:27,350
and this is going to be a fantastic day

186
00:09:30,870 --> 00:09:29,040
okay mrs coleman do they know where

187
00:09:34,550 --> 00:09:30,880
their positions are

188
00:09:37,110 --> 00:09:34,560

ines powell principal of anton gradina

189

00:09:38,550 --> 00:09:37,120

is the guiding force behind the school's

190

00:09:42,150 --> 00:09:38,560

participation

191

00:09:44,630 --> 00:09:42,160

in the educational empowerment project

192

00:09:47,509 --> 00:09:44,640

her dedication and commitment to

193

00:09:50,870 --> 00:09:47,519

educational excellence has been an

194

00:09:52,310 --> 00:09:50,880

inspiration to everyone who took part in

195

00:09:54,710 --> 00:09:52,320

the program

196

00:09:55,910 --> 00:09:54,720

been a year-long project

197

00:09:57,509 --> 00:09:55,920

they have

198

00:10:00,630 --> 00:09:57,519

been studying space

199

00:10:02,230 --> 00:10:00,640

activities and as they relate in space

200

00:10:03,430 --> 00:10:02,240

and on earth

201
00:10:06,630 --> 00:10:03,440
example

202
00:10:09,190 --> 00:10:06,640
food the importance of a good basic diet

203
00:10:11,590 --> 00:10:09,200
and how does that translate for a diet

204
00:10:12,470 --> 00:10:11,600
for astronauts in space

205
00:10:15,350 --> 00:10:12,480
um

206
00:10:16,710 --> 00:10:15,360
general health physical fitness

207
00:10:18,630 --> 00:10:16,720
and in doing

208
00:10:21,350 --> 00:10:18,640
various studies of the

209
00:10:23,750 --> 00:10:21,360
vehicles that are used in space they've

210
00:10:25,269 --> 00:10:23,760
had monthly

211
00:10:27,509 --> 00:10:25,279
in services

212
00:10:29,269 --> 00:10:27,519
by nasa engineers where we've had

213
00:10:31,670 --> 00:10:29,279

school-wide assemblies and small group

214

00:10:35,190 --> 00:10:31,680

sessions and they've studied such things

215

00:10:37,509 --> 00:10:35,200

advanced things as newton's laws

216

00:10:39,190 --> 00:10:37,519

propulsion etc

217

00:10:41,990 --> 00:10:39,200

it's been incorporated throughout the

218

00:10:43,670 --> 00:10:42,000

curriculum since day one and that means

219

00:10:47,030 --> 00:10:43,680

that we do not only what the district

220

00:10:49,190 --> 00:10:47,040

asks us ask of us but we also

221

00:10:50,470 --> 00:10:49,200

incorporate the space and science theme

222

00:10:52,710 --> 00:10:50,480

in reading

223

00:10:55,910 --> 00:10:52,720

and they have daily journal writing

224

00:10:58,230 --> 00:10:55,920

i think the interest in learning

225

00:11:00,790 --> 00:10:58,240

the fun that they're having

226

00:11:03,430 --> 00:11:00,800

has become is very infectious

227

00:11:05,430 --> 00:11:03,440

they're transmitting that home

228

00:11:06,630 --> 00:11:05,440

and the parents are very excited about

229

00:11:07,670 --> 00:11:06,640

it because the children come home

230

00:11:10,550 --> 00:11:07,680

excited

231

00:11:13,030 --> 00:11:10,560

and as a result an offshoot of that

232

00:11:14,630 --> 00:11:13,040

we're having a high level of parent

233

00:11:15,910 --> 00:11:14,640

participation

234

00:11:17,750 --> 00:11:15,920

which

235

00:11:19,590 --> 00:11:17,760

turns into

236

00:11:22,389 --> 00:11:19,600

a lesson of

237

00:11:23,430 --> 00:11:22,399

support assistance with the parents

238

00:11:25,430 --> 00:11:23,440

assisting

239

00:11:27,430 --> 00:11:25,440

the staff at the school

240

00:11:29,670 --> 00:11:27,440

with our whole purpose the whole reason

241

00:11:31,990 --> 00:11:29,680

this is this is about is so that the

242

00:11:34,790 --> 00:11:32,000

students will be acclimated at a very

243

00:11:37,430 --> 00:11:34,800

young age in the math and sciences

244

00:11:40,310 --> 00:11:37,440

and hopefully continue on as they grow

245

00:11:41,590 --> 00:11:40,320

older and go through their

246

00:11:43,670 --> 00:11:41,600

education

247

00:11:46,310 --> 00:11:43,680

and not have that

248

00:11:48,150 --> 00:11:46,320

dreaded fear of the science and the math

249

00:11:50,389 --> 00:11:48,160

because they have enjoyed it at an early

250

00:11:51,350 --> 00:11:50,399

age and they've developed a sincere

251
00:11:54,550 --> 00:11:51,360
interest

252
00:11:56,870 --> 00:11:54,560
hopefully we may have an astronaut in

253
00:11:58,790 --> 00:11:56,880
the future from anton from this very

254
00:12:01,110 --> 00:11:58,800
project that has generated so much

255
00:12:02,069 --> 00:12:01,120
interest students have taken it

256
00:12:04,630 --> 00:12:02,079
um

257
00:12:07,350 --> 00:12:04,640
so far where they have done experiments

258
00:12:09,110 --> 00:12:07,360
at home on their own

259
00:12:11,030 --> 00:12:09,120
parents have become involved we have in

260
00:12:11,670 --> 00:12:11,040
the corridor that

261
00:12:13,910 --> 00:12:11,680
is

262
00:12:16,470 --> 00:12:13,920
directly proceeds entry into the

263
00:12:18,470 --> 00:12:16,480

decontamination chamber where students

264

00:12:20,949 --> 00:12:18,480

and families together

265

00:12:23,030 --> 00:12:20,959

have built space stations

266

00:12:25,430 --> 00:12:23,040

they have done all types of journal

267

00:12:26,870 --> 00:12:25,440

writing on it and you know the more you

268

00:12:28,310 --> 00:12:26,880

write the more you read the more you

269

00:12:29,829 --> 00:12:28,320

learn the better your handwriting the

270

00:12:32,470 --> 00:12:29,839

better your spelling the better your

271

00:12:34,389 --> 00:12:32,480

creative thinking

272

00:12:36,470 --> 00:12:34,399

it's all it's it's

273

00:12:38,790 --> 00:12:36,480

just enhanced everything across the

274

00:12:40,710 --> 00:12:38,800

curriculum and and just recently in the

275

00:12:42,069 --> 00:12:40,720

last few days we you may have heard a

276

00:12:44,150 --> 00:12:42,079

loud noise we

277

00:12:46,550 --> 00:12:44,160

saw our test results this year and we

278

00:12:47,750 --> 00:12:46,560

were ecstatic and we have to attribute

279

00:12:49,990 --> 00:12:47,760

much of

280

00:12:50,949 --> 00:12:50,000

what we've done this year to that we

281

00:12:52,870 --> 00:12:50,959

have been

282

00:12:54,150 --> 00:12:52,880

watching our test scores for the fourth

283

00:12:56,150 --> 00:12:54,160

four years

284

00:12:57,910 --> 00:12:56,160

and this being

285

00:12:59,509 --> 00:12:57,920

the next year we watched them for four

286

00:13:01,350 --> 00:12:59,519

years there has been

287

00:13:03,030 --> 00:13:01,360

increase each year

288

00:13:04,790 --> 00:13:03,040

and there have been a few decreases

289

00:13:06,870 --> 00:13:04,800

because we're in the middle of

290

00:13:09,030 --> 00:13:06,880

implementing a new magnet school program

291

00:13:11,190 --> 00:13:09,040

non-graded primary achievement

292

00:13:12,949 --> 00:13:11,200

and we're also using

293

00:13:14,949 --> 00:13:12,959

schoolwide service so we're in the

294

00:13:16,389 --> 00:13:14,959

process of implementing two major

295

00:13:18,069 --> 00:13:16,399

programs

296

00:13:20,710 --> 00:13:18,079

and we were watching very carefully

297

00:13:22,870 --> 00:13:20,720

carefully to see how all of the effects

298

00:13:25,430 --> 00:13:22,880

of those programs the benefits of those

299

00:13:27,990 --> 00:13:25,440

programs were affecting test scores we

300

00:13:31,190 --> 00:13:28,000

saw increases but this year

301
00:13:33,190 --> 00:13:31,200
we saw significant increases and the

302
00:13:35,190 --> 00:13:33,200
staff let out cheers like you wouldn't

303
00:13:36,550 --> 00:13:35,200
believe and it made them feel great

304
00:13:39,030 --> 00:13:36,560
because they knew

305
00:13:40,949 --> 00:13:39,040
that all the efforts and the

306
00:13:43,509 --> 00:13:40,959
enjoyment that has been generated this

307
00:13:46,069 --> 00:13:43,519
year with this project

308
00:13:49,110 --> 00:13:46,079
has taken on such

309
00:13:50,470 --> 00:13:49,120
excitement for everyone that it

310
00:13:51,990 --> 00:13:50,480
actually

311
00:13:54,230 --> 00:13:52,000
was working and other things were

312
00:13:55,990 --> 00:13:54,240
happening the fun of learning

313
00:13:56,790 --> 00:13:56,000

translated into

314

00:13:57,990 --> 00:13:56,800

real

315

00:13:59,829 --> 00:13:58,000

hardcore

316

00:14:00,710 --> 00:13:59,839

education we have

317

00:14:02,389 --> 00:14:00,720

shown

318

00:14:03,829 --> 00:14:02,399

increases

319

00:14:06,550 --> 00:14:03,839

where we have

320

00:14:07,990 --> 00:14:06,560

met or surpassed the cluster and we are

321

00:14:10,310 --> 00:14:08,000

in cleveland were

322

00:14:11,110 --> 00:14:10,320

divided into six clusters

323

00:14:12,710 --> 00:14:11,120

of

324

00:14:15,269 --> 00:14:12,720

schools six

325

00:14:17,590 --> 00:14:15,279

areas and we have surpassed

326

00:14:19,110 --> 00:14:17,600

the other schools in our cluster in math

327

00:14:21,509 --> 00:14:19,120

and reading

328

00:14:24,790 --> 00:14:21,519

vocabulary and comprehension

329

00:14:28,230 --> 00:14:24,800

we have met or surpassed the district's

330

00:14:30,470 --> 00:14:28,240

achievement yes in in areas of reading

331

00:14:32,310 --> 00:14:30,480

and math with our three grade levels so

332

00:14:33,189 --> 00:14:32,320

you're leading the way we're leading the

333

00:14:35,350 --> 00:14:33,199

way

334

00:14:37,590 --> 00:14:35,360

what we thought was a minor project has

335

00:14:39,910 --> 00:14:37,600

turned into something very major but in

336

00:14:41,990 --> 00:14:39,920

becoming very major

337

00:14:44,949 --> 00:14:42,000

a lot of excitement has been generated

338

00:14:46,629 --> 00:14:44,959

and we the benefits are many we've

339

00:14:50,550 --> 00:14:46,639

seen a

340

00:14:51,990 --> 00:14:50,560

very a tripling of parent participation

341

00:14:53,110 --> 00:14:52,000

tripling

342

00:14:55,670 --> 00:14:53,120

where

343

00:14:57,750 --> 00:14:55,680

before the project began we had some

344

00:15:00,389 --> 00:14:57,760

parent participation it has

345

00:15:03,430 --> 00:15:00,399

at least tripled

346

00:15:05,670 --> 00:15:03,440

we have had an increase of staff support

347

00:15:07,509 --> 00:15:05,680

as far as staying after school

348

00:15:10,710 --> 00:15:07,519

we worked on weekends

349

00:15:13,350 --> 00:15:10,720

we've worked after school we've worked

350

00:15:16,470 --> 00:15:13,360

late evenings i understand staff who

351

00:15:16,480 --> 00:15:19,829

we have had

352

00:15:23,430 --> 00:15:21,670

our organizations that are adopted

353

00:15:25,670 --> 00:15:23,440

school partners

354

00:15:28,389 --> 00:15:25,680

have come in they've pitched in so we've

355

00:15:30,790 --> 00:15:28,399

gotten all type of community support for

356

00:15:34,150 --> 00:15:30,800

this project that has

357

00:15:36,150 --> 00:15:34,160

our volunteer records are soaring

358

00:15:38,150 --> 00:15:36,160

the staff i would say the benefits for

359

00:15:39,990 --> 00:15:38,160

them in addition to myself i'm not

360

00:15:41,430 --> 00:15:40,000

excluding myself we have learned so much

361

00:15:43,269 --> 00:15:41,440

about space things that we didn't even

362

00:15:46,550 --> 00:15:43,279

know about before

363

00:15:49,350 --> 00:15:46,560

and it is also served as a vehicle to

364

00:15:52,870 --> 00:15:49,360

bring cohesion to the staff

365

00:15:56,069 --> 00:15:52,880

every student at anton has experienced

366

00:15:57,670 --> 00:15:56,079

many joys and wonders of excitement from

367

00:16:00,310 --> 00:15:57,680

this program

368

00:16:03,030 --> 00:16:00,320

an excitement that can be instilled in

369

00:16:05,509 --> 00:16:03,040

every child's learning experience with

370

00:16:08,470 --> 00:16:05,519

the help of hands-on aerospace

371

00:16:11,189 --> 00:16:08,480

activities developed by nasa

372

00:16:14,389 --> 00:16:11,199

to enhance science and math teaching in

373

00:16:15,910 --> 00:16:14,399

a way that makes learning easy

374

00:16:17,350 --> 00:16:15,920

enjoyable

375

00:16:18,790 --> 00:16:17,360

interesting

376

00:16:20,629 --> 00:16:18,800

compelling

377

00:16:24,069 --> 00:16:20,639

and fun

378

00:16:26,629 --> 00:16:24,079

the educational empowerment project is

379

00:16:30,389 --> 00:16:26,639

indeed an experience that children at

380

00:16:33,670 --> 00:16:30,399

anton will never forget

381

00:16:37,430 --> 00:16:33,680

my name's david fletcher david fletcher

382

00:16:42,150 --> 00:16:37,440

and what grade are you in kindergarten

383

00:16:48,069 --> 00:16:45,430

i learned how to do our homework

384

00:16:49,749 --> 00:16:48,079

in our math

385

00:16:53,509 --> 00:16:49,759

and we and we gonna

386

00:16:56,069 --> 00:16:53,519

play nicely and talk nicely

387

00:16:57,509 --> 00:16:56,079

and speak up nicely

388

00:16:58,550 --> 00:16:57,519

speaking up nicely

389

00:17:03,189 --> 00:16:58,560

did you

390

00:17:08,069 --> 00:17:06,309

i want to be a bus driver all right now

391

00:17:10,390 --> 00:17:08,079

i wanted to ask you do you know the

392

00:17:12,230 --> 00:17:10,400

planets yet

393

00:17:15,669 --> 00:17:12,240

how about telling me what the planets

394

00:17:22,470 --> 00:17:15,679

are that you know sun mercury

395

00:17:22,480 --> 00:17:26,309

what's your favorite planet

396

00:17:28,630 --> 00:17:27,429

pluto

397

00:17:33,590 --> 00:17:28,640

how come

398

00:17:36,070 --> 00:17:33,600

because it's nice in there and cold

399

00:17:39,510 --> 00:17:36,080

and you don't like hot weather

400

00:17:40,789 --> 00:17:39,520

i really like hot water i learned how to

401

00:17:43,110 --> 00:17:40,799

like um

402

00:17:45,430 --> 00:17:43,120

grow some plants

403

00:17:47,909 --> 00:17:45,440

and what would happen to things if you

404

00:17:49,990 --> 00:17:47,919

like put them in something

405

00:17:53,750 --> 00:17:50,000

like if you would put germs in a little

406

00:17:57,750 --> 00:17:55,590

they would start growing

407

00:18:00,150 --> 00:17:57,760

because in my class they're starting

408

00:18:02,070 --> 00:18:00,160

growing germs

409

00:18:04,390 --> 00:18:02,080

and they hit them in these little cases

410

00:18:05,590 --> 00:18:04,400

and the next day they had water on the

411

00:18:08,549 --> 00:18:05,600

top of them

412

00:18:11,830 --> 00:18:08,559

parents of the children at anton gradina

413

00:18:13,669 --> 00:18:11,840

were active participants in the program

414

00:18:16,230 --> 00:18:13,679

they are thrilled with the effects of

415

00:18:19,430 --> 00:18:16,240

the program which promises their

416

00:18:22,710 --> 00:18:19,440

children enthusiasm for learning

417

00:18:25,029 --> 00:18:22,720

they are also delightfully pleased to

418

00:18:27,510 --> 00:18:25,039

have been given the opportunity to share

419

00:18:29,590 --> 00:18:27,520

their child's learning experience

420

00:18:31,510 --> 00:18:29,600

by working together for such a

421

00:18:33,110 --> 00:18:31,520

meaningful effort

422

00:18:35,270 --> 00:18:33,120

kim chandler

423

00:18:37,590 --> 00:18:35,280

and you have a kid in the school yeah i

424

00:18:39,270 --> 00:18:37,600

have a preschooler

425

00:18:41,110 --> 00:18:39,280

chad chandler

426
00:18:43,750 --> 00:18:41,120
and the preschoolers

427
00:18:45,830 --> 00:18:43,760
they made little astronauts

428
00:18:47,270 --> 00:18:45,840
out of paper life size

429
00:18:48,549 --> 00:18:47,280
and they have their name on it they drew

430
00:18:50,310 --> 00:18:48,559
the faces

431
00:18:52,070 --> 00:18:50,320
and they have them outside the classroom

432
00:18:53,990 --> 00:18:52,080
door for so many months until the other

433
00:18:56,310 --> 00:18:54,000
students get their space

434
00:18:57,669 --> 00:18:56,320
space outfits and they make those and

435
00:18:59,750 --> 00:18:57,679
they put them on the side so she brought

436
00:19:01,669 --> 00:18:59,760
hers home and he's hanging on the door

437
00:19:04,310 --> 00:19:01,679
and it's so nice and they teach them

438
00:19:05,909 --> 00:19:04,320

about the planets and you know told them

439

00:19:08,630 --> 00:19:05,919

about the uh

440

00:19:11,110 --> 00:19:08,640

moon and the stars and i saw at night

441

00:19:13,190 --> 00:19:11,120

time she looks up well so my teacher

442

00:19:15,590 --> 00:19:13,200

told me that this and is that the big

443

00:19:19,270 --> 00:19:15,600

dipper you know and it's good to see

444

00:19:20,310 --> 00:19:19,280

them with their minds on something so

445

00:19:22,070 --> 00:19:20,320

uh

446

00:19:24,150 --> 00:19:22,080

should i say children are interested in

447

00:19:26,230 --> 00:19:24,160

science that much at four and five years

448

00:19:28,549 --> 00:19:26,240

old but when it's introduced to them at

449

00:19:31,029 --> 00:19:28,559

such young ages in preschool and whatnot

450

00:19:33,110 --> 00:19:31,039

they have a chance to have the interest

451
00:19:35,029 --> 00:19:33,120
of science and space and things so when

452
00:19:36,630 --> 00:19:35,039
they get older they won't be so

453
00:19:38,070 --> 00:19:36,640
immune to these things when they get in

454
00:19:39,830 --> 00:19:38,080
fourth and third grade when they have

455
00:19:42,070 --> 00:19:39,840
science they say well i learned this in

456
00:19:43,750 --> 00:19:42,080
preschool my teacher told me this and i

457
00:19:45,029 --> 00:19:43,760
heard of this so they won't have to just

458
00:19:46,549 --> 00:19:45,039
hear from their parents all the time

459
00:19:48,630 --> 00:19:46,559
they can come to school and get it are

460
00:19:49,669 --> 00:19:48,640
you learning anything

461
00:19:51,430 --> 00:19:49,679
well yeah

462
00:19:53,270 --> 00:19:51,440
yeah i've learned quite a bit i learned

463
00:19:55,669 --> 00:19:53,280

that jupiter was the biggest planet and

464

00:19:57,190 --> 00:19:55,679

you know in space and i didn't know that

465

00:19:58,630 --> 00:19:57,200

so it's a lot of things i'm

466

00:20:00,230 --> 00:19:58,640

understanding that i didn't understand

467

00:20:02,310 --> 00:20:00,240

because when i was young i wasn't

468

00:20:04,789 --> 00:20:02,320

interested in science and the moons and

469

00:20:06,789 --> 00:20:04,799

the stars and whatnot so i think it's

470

00:20:09,029 --> 00:20:06,799

real good i think this is really good we

471

00:20:11,990 --> 00:20:09,039

were going over the

472

00:20:14,390 --> 00:20:12,000

he's over with the signs the astrology

473

00:20:17,590 --> 00:20:14,400

and

474

00:20:18,710 --> 00:20:17,600

i wasn't familiar with all the stars

475

00:20:21,270 --> 00:20:18,720

that

476

00:20:24,070 --> 00:20:21,280

were supposedly in disguise

477

00:20:25,110 --> 00:20:24,080

and he was showing me some of the things

478

00:20:26,070 --> 00:20:25,120

that

479

00:20:27,590 --> 00:20:26,080

kind of

480

00:20:29,510 --> 00:20:27,600

it was pretty interesting

481

00:20:32,149 --> 00:20:29,520

this has been very interesting uh

482

00:20:35,750 --> 00:20:32,159

morning for me you know

483

00:20:38,310 --> 00:20:35,760

it's re-stimulated me because uh my my

484

00:20:39,669 --> 00:20:38,320

grandson and myself have a globe at home

485

00:20:42,070 --> 00:20:39,679

that we go over

486

00:20:44,149 --> 00:20:42,080

and i see that he's learned more than i

487

00:20:46,230 --> 00:20:44,159

gave him credit for when he answered

488

00:20:48,070 --> 00:20:46,240

your questions

489

00:20:49,750 --> 00:20:48,080

and uh

490

00:20:52,070 --> 00:20:49,760

my son uh

491

00:20:53,110 --> 00:20:52,080

studied at home uh with uh his mother

492

00:20:55,830 --> 00:20:53,120

and i

493

00:20:59,430 --> 00:20:55,840

uh uh the planets and so forth he

494

00:21:01,590 --> 00:20:59,440

probably doesn't remember that but uh

495

00:21:03,430 --> 00:21:01,600

i've never seen a school

496

00:21:04,549 --> 00:21:03,440

participate in the manner that this one

497

00:21:05,830 --> 00:21:04,559

has

498

00:21:08,710 --> 00:21:05,840

the

499

00:21:10,390 --> 00:21:08,720

project from nasa has really stimulated

500

00:21:13,510 --> 00:21:10,400

the community

501
00:21:16,789 --> 00:21:13,520
leonard cobbs is a nasa pilot

502
00:21:18,149 --> 00:21:16,799
but devotes much of his time assisting

503
00:21:19,270 --> 00:21:18,159
coordinating

504
00:21:21,990 --> 00:21:19,280
and or

505
00:21:25,029 --> 00:21:22,000
conducting educational programs and

506
00:21:26,470 --> 00:21:25,039
learning activities for lewis research

507
00:21:29,270 --> 00:21:26,480
center

508
00:21:31,510 --> 00:21:29,280
he is impressed with the magnitude of

509
00:21:32,710 --> 00:21:31,520
student interest in technological

510
00:21:35,590 --> 00:21:32,720
subjects

511
00:21:38,789 --> 00:21:35,600
and with the continuous cooperation and

512
00:21:41,270 --> 00:21:38,799
support shown by parents

513
00:21:42,830 --> 00:21:41,280

they ask very technical questions

514

00:21:45,990 --> 00:21:42,840

because they're interested they want to

515

00:21:48,470 --> 00:21:46,000

know and the challenge to me is to try

516

00:21:50,630 --> 00:21:48,480

to distill the science down to the same

517

00:21:51,830 --> 00:21:50,640

first grade level kindergarten level and

518

00:21:52,950 --> 00:21:51,840

still keep it

519

00:21:54,710 --> 00:21:52,960

accurate

520

00:21:57,909 --> 00:21:54,720

they want to know like how airplanes

521

00:21:59,990 --> 00:21:57,919

turn or questions evolving lyft then

522

00:22:01,590 --> 00:22:00,000

something that you just can't

523

00:22:02,950 --> 00:22:01,600

paraphrase you just have to just try to

524

00:22:04,950 --> 00:22:02,960

distill it down

525

00:22:06,789 --> 00:22:04,960

so that's that's the challenge to me

526

00:22:09,590 --> 00:22:06,799

what made work was just a combination of

527

00:22:10,789 --> 00:22:09,600

everybody coming together kids were easy

528

00:22:12,789 --> 00:22:10,799

because they're young and they're

529

00:22:15,029 --> 00:22:12,799

curious but we had to overcome the

530

00:22:16,630 --> 00:22:15,039

initial resistance of the parents like

531

00:22:18,870 --> 00:22:16,640

they were suspicious is this going to

532

00:22:20,870 --> 00:22:18,880

work well adults tend to be suspicious

533

00:22:24,230 --> 00:22:20,880

of something new then we had to commit

534

00:22:25,669 --> 00:22:24,240

convince the school board and cmha and a

535

00:22:27,110 --> 00:22:25,679

lot of other people that this really

536

00:22:29,270 --> 00:22:27,120

would work

537

00:22:31,590 --> 00:22:29,280

this is now the second year

538

00:22:33,830 --> 00:22:31,600

and as we see here it's starting to

539

00:22:35,750 --> 00:22:33,840

snowball and we know we don't have the

540

00:22:36,549 --> 00:22:35,760

problem now convincing people this will

541

00:22:38,630 --> 00:22:36,559

work

542

00:22:40,870 --> 00:22:38,640

we brought them out to nasa

543

00:22:42,230 --> 00:22:40,880

because this is uh we don't just work

544

00:22:44,230 --> 00:22:42,240

the children the parents have to be

545

00:22:45,830 --> 00:22:44,240

involved so when the children came out

546

00:22:47,990 --> 00:22:45,840

to nasa for a tour the parents had to

547

00:22:50,149 --> 00:22:48,000

come along and they got the tour they

548

00:22:52,070 --> 00:22:50,159

got to ask questions and

549

00:22:54,310 --> 00:22:52,080

we're not trying to teach the parents

550

00:22:56,549 --> 00:22:54,320

per se but we want them to know enough

551
00:22:58,070 --> 00:22:56,559
about what's going on so if they get a

552
00:23:00,470 --> 00:22:58,080
follow-on question when they go home

553
00:23:03,350 --> 00:23:00,480
that they can reinforce what we're doing

554
00:23:07,590 --> 00:23:03,360
john hairston is the director of

555
00:23:11,029 --> 00:23:07,600
external programs at nasa lewis he has

556
00:23:14,549 --> 00:23:11,039
played a major role in ensuring support

557
00:23:16,870 --> 00:23:14,559
of the educational empowerment effort

558
00:23:19,110 --> 00:23:16,880
most important aspect of the program is

559
00:23:20,870 --> 00:23:19,120
the partnership that has been developed

560
00:23:22,870 --> 00:23:20,880
between cmha

561
00:23:24,950 --> 00:23:22,880
between the cleveland public schools

562
00:23:26,870 --> 00:23:24,960
anti-gradina

563
00:23:28,630 --> 00:23:26,880

in particular and most of all the

564

00:23:30,870 --> 00:23:28,640

partnership that nasa lewis research

565

00:23:33,190 --> 00:23:30,880

center has with these two entities

566

00:23:35,270 --> 00:23:33,200

it goes to show that when we begin to

567

00:23:37,909 --> 00:23:35,280

focus and work together

568

00:23:39,669 --> 00:23:37,919

and and let that focus be on children

569

00:23:41,909 --> 00:23:39,679

that we can succeed

570

00:23:44,230 --> 00:23:41,919

i will say to you that we have a

571

00:23:45,990 --> 00:23:44,240

commitment at nasa lewis research center

572

00:23:47,270 --> 00:23:46,000

we will be following these children to

573

00:23:49,270 --> 00:23:47,280

the next level

574

00:23:52,070 --> 00:23:49,280

and hopefully down the road we will be

575

00:23:54,390 --> 00:23:52,080

able to provide a national model just by

576

00:23:57,029 --> 00:23:54,400

using the anti-grandina model

577

00:23:59,990 --> 00:23:57,039

to service children and acquaint them

578

00:24:01,830 --> 00:24:00,000

with the sciences the the sciences

579

00:24:03,270 --> 00:24:01,840

and some of the other technical kinds of

580

00:24:06,950 --> 00:24:03,280

skills that we want them to have

581

00:24:08,549 --> 00:24:06,960

director of nasa lewis research center

582

00:24:10,870 --> 00:24:08,559

larry ross

583

00:24:14,070 --> 00:24:10,880

took time out of his busy schedule to

584

00:24:16,390 --> 00:24:14,080

visit anton gradina on launch day

585

00:24:18,710 --> 00:24:16,400

he had been briefed on the project and

586

00:24:20,870 --> 00:24:18,720

was given numerous details

587

00:24:22,149 --> 00:24:20,880

about the outstanding results of the

588

00:24:25,750 --> 00:24:22,159

program

589

00:24:29,590 --> 00:24:25,760

however mr ross's visit turned out to be

590

00:24:32,149 --> 00:24:29,600

one of amazement as he was overcome by

591

00:24:33,269 --> 00:24:32,159

the glowing results from space station

592

00:24:34,710 --> 00:24:33,279

harmony

593

00:24:36,149 --> 00:24:34,720

after having just

594

00:24:37,350 --> 00:24:36,159

walked through the

595

00:24:38,870 --> 00:24:37,360

culmination

596

00:24:42,230 --> 00:24:38,880

of a whole school year's worth of

597

00:24:44,149 --> 00:24:42,240

activity where people from nasa

598

00:24:46,710 --> 00:24:44,159

both the federal workforce and our

599

00:24:49,430 --> 00:24:46,720

contractor workforce and the wonderful

600

00:24:52,230 --> 00:24:49,440

beautiful vibrant young people here at

601
00:24:54,230 --> 00:24:52,240
antonina gardena school

602
00:24:57,029 --> 00:24:54,240
have been learning and playing and

603
00:24:59,430 --> 00:24:57,039
having a grand time for all this period

604
00:25:02,149 --> 00:24:59,440
of the school and today is the end of of

605
00:25:04,390 --> 00:25:02,159
that activity uh just shows

606
00:25:06,149 --> 00:25:04,400
uh it's almost indescribable to get the

607
00:25:07,909 --> 00:25:06,159
spirit into words the spirit i just saw

608
00:25:10,470 --> 00:25:07,919
on on the part of the teachers and the

609
00:25:12,070 --> 00:25:10,480
young people into words but it shows

610
00:25:14,070 --> 00:25:12,080
still the impact

611
00:25:16,310 --> 00:25:14,080
of our program and the impact of our

612
00:25:18,710 --> 00:25:16,320
people can have on kids

613
00:25:20,950 --> 00:25:18,720

uh making the learning experience be

614

00:25:22,950 --> 00:25:20,960

the kind of fun event

615

00:25:24,310 --> 00:25:22,960

the interesting space these kids have

616

00:25:26,230 --> 00:25:24,320

allows it to be

617

00:25:27,830 --> 00:25:26,240

and it's just been a wonderful day and a

618

00:25:30,230 --> 00:25:27,840

wonderful experience and

619

00:25:31,430 --> 00:25:30,240

i think we can share some lessons we've

620

00:25:33,669 --> 00:25:31,440

learned and

621

00:25:35,350 --> 00:25:33,679

we have learned a lot over the past

622

00:25:36,950 --> 00:25:35,360

period of time with these young people

623

00:25:38,950 --> 00:25:36,960

but it's been just great and i thank

624

00:25:41,750 --> 00:25:38,960

everybody who took part in it

625

00:25:45,029 --> 00:25:41,760

sandy walters is an educational

626
00:25:47,669 --> 00:25:45,039
specialist for the office of educational

627
00:25:50,630 --> 00:25:47,679
programs at nasa lewis

628
00:25:53,430 --> 00:25:50,640
she serves as the program manager for

629
00:25:56,390 --> 00:25:53,440
the anton project

630
00:25:59,269 --> 00:25:56,400
she oversaw the design of the modules

631
00:26:01,430 --> 00:25:59,279
for space station harmony and work to

632
00:26:04,870 --> 00:26:01,440
ensure that all aspects of the

633
00:26:07,029 --> 00:26:04,880
empowerment project function smoothly

634
00:26:09,990 --> 00:26:07,039
in addition miss walters was

635
00:26:12,549 --> 00:26:10,000
instrumental in providing nasa's

636
00:26:15,190 --> 00:26:12,559
educational resources

637
00:26:18,549 --> 00:26:15,200
aerospace activities

638
00:26:21,830 --> 00:26:18,559

and technical assistance needed from

639

00:26:31,430 --> 00:26:21,840

nasa's staff to make the program a

640

00:26:36,230 --> 00:26:34,070

i have thoroughly enjoyed working with

641

00:26:39,430 --> 00:26:36,240

the partners in this educational

642

00:26:40,630 --> 00:26:39,440

endeavor and especially with anton

643

00:26:42,390 --> 00:26:40,640

gradina

644

00:26:44,310 --> 00:26:42,400

throughout my career

645

00:26:48,149 --> 00:26:44,320

while working with students

646

00:26:51,110 --> 00:26:48,159

i have never experienced such enthusiasm

647

00:26:55,190 --> 00:26:51,120

for learning as i have with the children

648

00:26:58,310 --> 00:26:55,200

of anton and i am intensely moved by the

649

00:27:00,950 --> 00:26:58,320

cooperation and support received from

650

00:27:03,830 --> 00:27:00,960

the parents and the staff

651
00:27:06,470 --> 00:27:03,840
the positive results from this program

652
00:27:09,510 --> 00:27:06,480
have stimulated all of us

653
00:27:12,070 --> 00:27:09,520
with excitement and encouragement to

654
00:27:15,190 --> 00:27:12,080
reach the next level

655
00:27:18,549 --> 00:27:15,200
this project is just the beginning as we

656
00:27:21,430 --> 00:27:18,559
look to move this program forward

657
00:27:24,390 --> 00:27:21,440
the experience the children have had

658
00:27:25,590 --> 00:27:24,400
and working with hands-on aerospace

659
00:27:28,630 --> 00:27:25,600
activities

660
00:27:31,909 --> 00:27:28,640
has helped to prove that school-aged

661
00:27:35,590 --> 00:27:31,919
children can achieve an interest in

662
00:27:37,269 --> 00:27:35,600
science and math and thereby exhale to

663
00:27:40,630 --> 00:27:37,279

new heights