



1

00:00:00,000 --> 00:00:02,540

FAA Manager: Welcome to Oakland Center!

2

00:00:02,560 --> 00:00:05,110

Narrator: A group of ninth-grade students from San Mateo High School

3

00:00:05,130 --> 00:00:07,840

received a hands-on lesson in air traffic control,

4

00:00:07,860 --> 00:00:10,100

courtesy of the Federal Aviation Administration

5

00:00:10,120 --> 00:00:12,180

and NASA Ames Research Center.

6

00:00:12,200 --> 00:00:14,370

Air Traffic Controller: Here comes United 1543 and he's saying the same thing.

7

00:00:14,390 --> 00:00:16,070

Hey, do you want him to come, too?

8

00:00:16,090 --> 00:00:19,210

Narrator: During their visit to the Oakland Air Route Traffic Control Center

9

00:00:19,230 --> 00:00:21,980

the students met with real air traffic controllers

10

00:00:22,000 --> 00:00:24,900

and had the opportunity to direct simulated airplanes

11

00:00:24,920 --> 00:00:27,350

in the Dynamic Simulation lab.

12

00:00:27,370 --> 00:00:29,650

NASA employee: Let's try it one more time and I'll bet

13

00:00:29,670 --> 00:00:31,890

we can get it perfect.

14

00:00:31,910 --> 00:00:34,200

Narrator: The students also tried out a NASA-developed

15

00:00:34,220 --> 00:00:37,130

mobile app called "Sector 33."

16

00:00:37,150 --> 00:00:39,470

The app teaches students how air traffic controllers

17

00:00:39,490 --> 00:00:42,650

use math and problem-solving skills every day

18

00:00:42,670 --> 00:00:45,350

to safely guide airplanes to their destinations.

19

00:00:45,370 --> 00:00:47,820

Scott Conde: Air traffic controllers put together a three-dimensional

20

00:00:47,840 --> 00:00:50,140

jigsaw puzzle while it's moving.

21

00:00:50,160 --> 00:00:53,260

That app is a graphical representation of that.

22

00:00:53,280 --> 00:00:56,890

It presents airplanes flying on roads in the sky

23

00:00:56,910 --> 00:00:59,500

and the students have to move those airplanes

24

00:00:59,520 --> 00:01:01,460

and adjust the speed of those airplanes,

25

00:01:01,480 --> 00:01:05,230

so that they're properly sequenced to get to their destination.

26

00:01:05,250 --> 00:01:07,060

Lindsey Pantuso: This was definitely worthwhile.

27

00:01:07,080 --> 00:01:10,010

I'm really glad I got the opportunity to check this place out,

28

00:01:10,030 --> 00:01:13,100

because it really gives me a real-life impression about it.

29

00:01:13,120 --> 00:01:16,680

So, it definitely opens doors and makes me see, like,

30

00:01:16,700 --> 00:01:18,980

what math can really be used in.

31

00:01:19,000 --> 00:01:22,380

Narrator: The two-hour field trip was part of the Smart Skies project.

32

00:01:22,400 --> 00:01:25,600

Developed by NASA, in partnership with the FAA,

33

00:01:25,620 --> 00:01:28,980

the program provides a fun and exciting way to learn math

34

00:01:29,000 --> 00:01:34,890

and to get an introduction to high technology careers related to aviation.