

# **BREAKING THE BARRIERS**

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FROM AFTERSCHOOL FLYING CLUB  
TO AVIATION IN THE CLASSROOM

Presented by

**Daren Gallacher**  
**Coreen Carrillo**  
**Robert Pasztor**

**SAMS Academy &**  
**Southwest Secondary Learning Center**  
Albuquerque, New Mexico USA



# **DAREN GALLACHER**

## **DIRECTOR OF AVIATION**

Southwest Aeronautics, Mathematics,  
& Science (SAMS) Academy

Southwest Secondary Learning Center (SSLC)





**SOUTHWEST  
SECONDARY  
LEARNING  
CENTER**

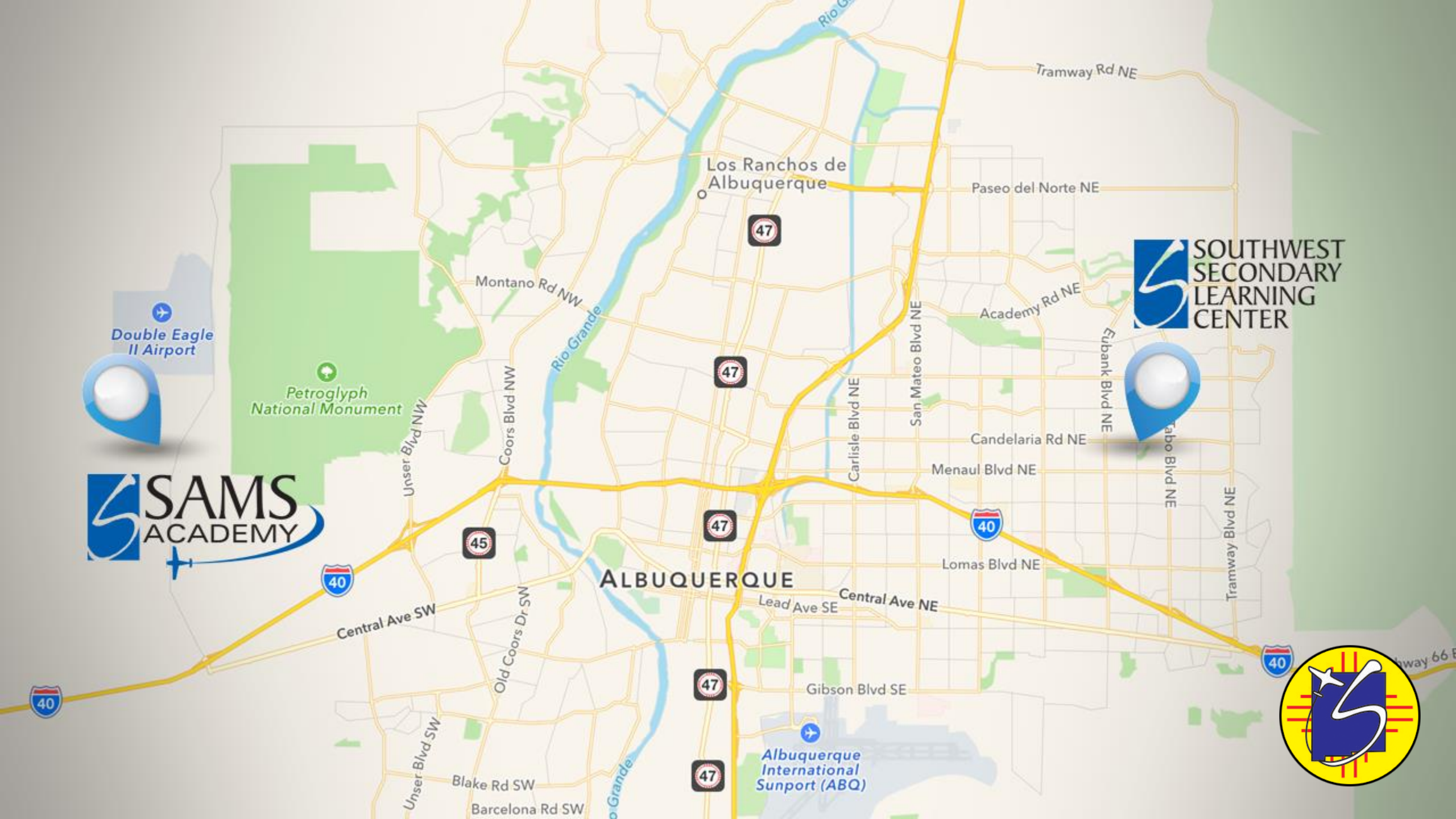


**SAMS  
ACADEMY**











Southwest Aeronautics,  
Mathematics and...

Double Eagle  
II Airport

Atrisco Vista Blvd

Atrisco Vista Blvd





# COREEN CARRILLO

## PRINCIPAL

Southwest Aeronautics, Mathematics,  
& Science (SAMS) Academy





*Welcome to*

**NEW MEXICO**

*Land of Enchantment*









Yes, New Mexico is part of the  
**United States.**





You don't need a passport to visit.





It's perfectly safe to drink the water.





We don't use pesos for money.





**OUR STUNNING LANDSCAPE**













SANDIA PEAK





Cuñobres & Taltepec

457











# OUR EDUCATIONAL LANDSCAPE

In overall according to the report, New Mexico ranked 49th in national education report with just 1.5% of state spending at \$9,736, while the national average is \$11,735.

NEW MEXICO RANKED 49TH  
IN NATIONAL EDUCATION REPORT

The New Mexican  
2015 (Robert Nott)

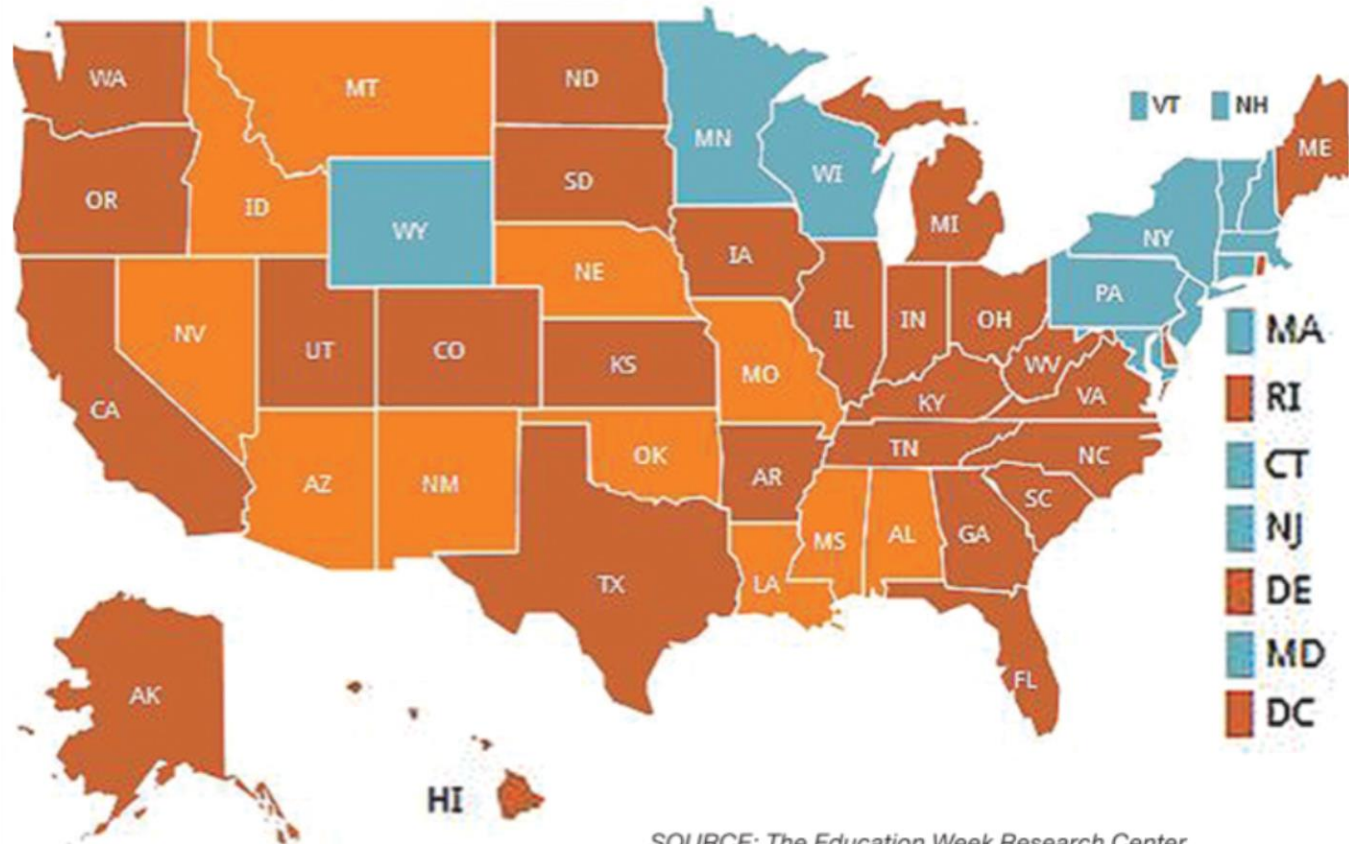


## STATE REPORT CARDS ON EDUCATION

New Mexico ranks 48th out of 51 states and the District of Columbia, with a D rating overall, D+ in chance for success, C- in early foundations, D- in achievement and an F rating in spending.

The Grading Scale: ■ A+ to A- ■ B+ to B- ■ C+ to C- ■ D+ to D- ■ F ■ N/A

**U.S. Score = C (74.4)**



SOURCE: The Education Week Research Center

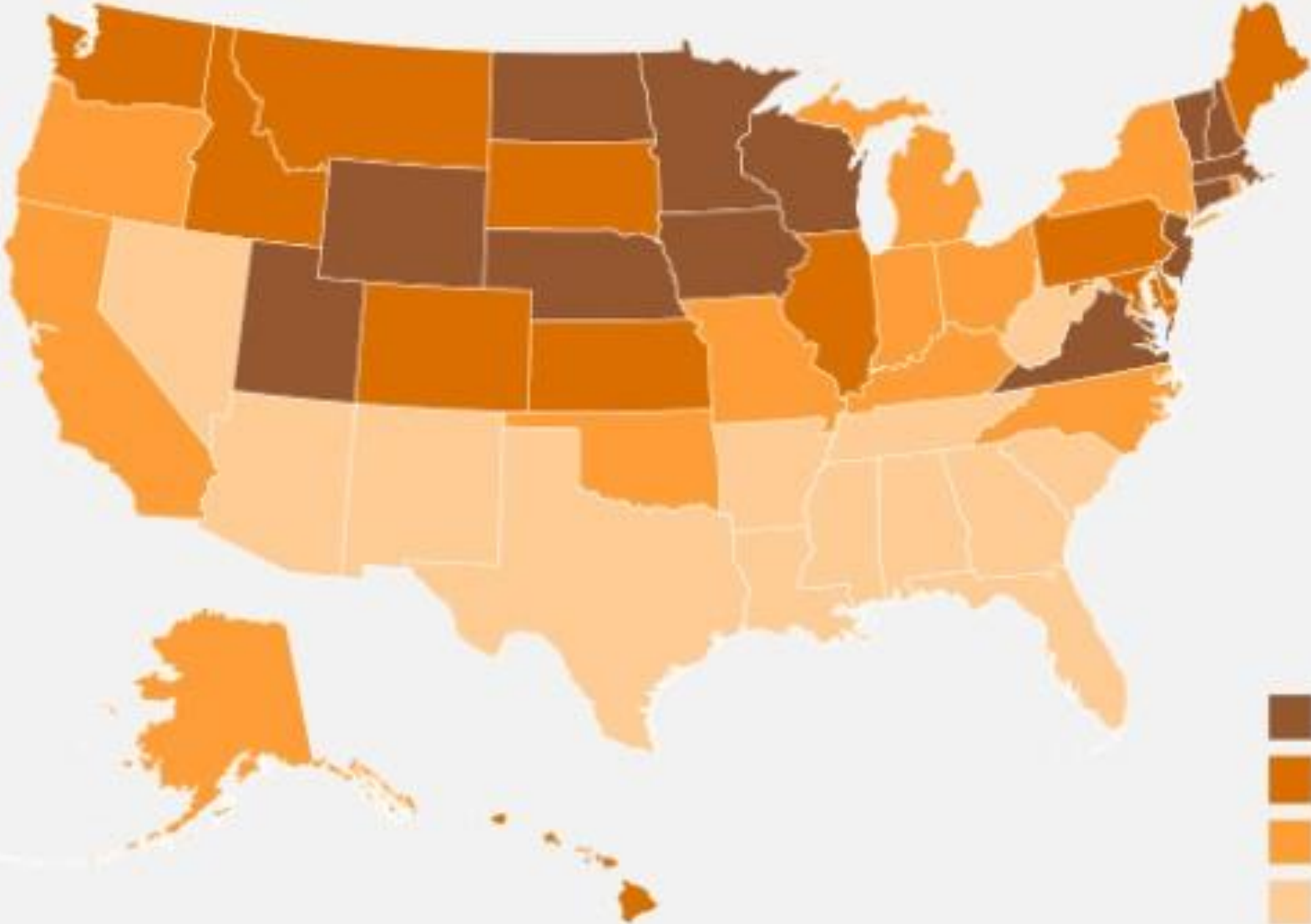


New Mexico falls to last place for graduation rate in the country during the 2013-2014 academic year. In 2015 New Mexico was second lowest according to *Building a Grad Nation* report, coming in just ahead of Oregon. In 2014, the state tied for second worst with a trio of other low performers – Alaska, Oregon and Georgia.

Albuquerque Journal  
May 13, 2016 (Kim Burgess)



# Overall child well-being by state



- States ranked 1-13
- States ranked 14-25
- States ranked 26-37
- States ranked 38-50



According to a recent study,  
New Mexico was ranked 49<sup>th</sup> in  
overall **child well-being**.


In addition, New Mexico had the  
highest rate of **children in poverty**   
30% across the state.

CNN

June 22, 2016 (Lauren Del Valle)

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- 
- 
-





New Mexico ranks number one in the nation for **child hunger** for the second year in a row.

KOAT-TV  
April 29, 2014 (Laura Thoren)



Southwest Secondary Learning Center earned a **bronze medal** in *U.S. News & World Report's* 2016 national rankings of best high schools, based on **state-required test performance** and **preparation for college**.

### SSLC SCORECARD

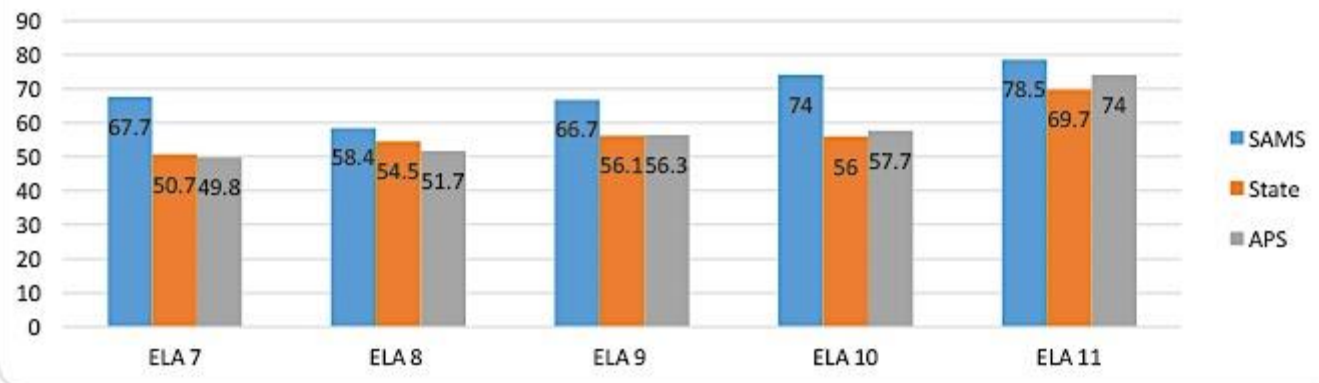
Math Proficiency: 78%

English Proficiency: 83%

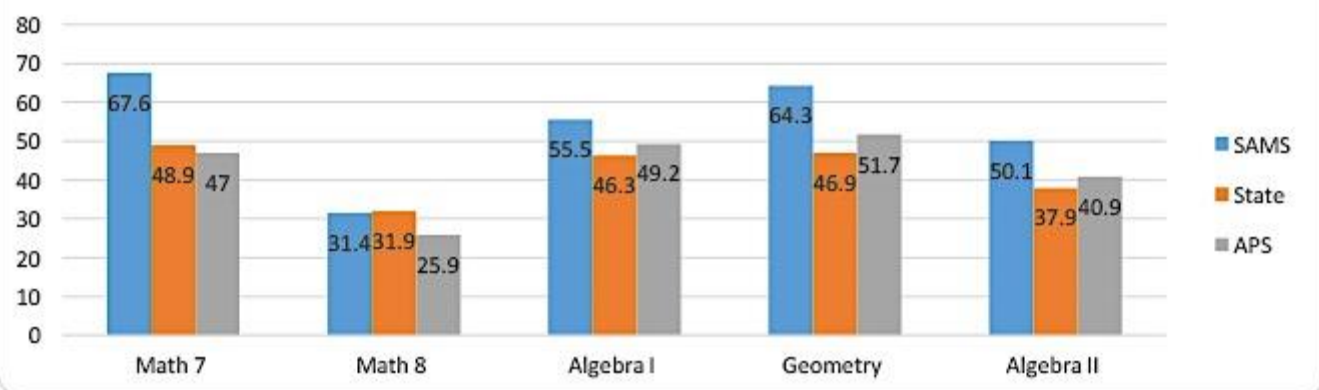




## Spring 2016 ELA PARCC Scores SAMS Academy

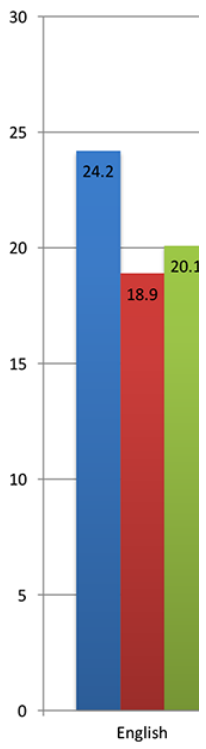
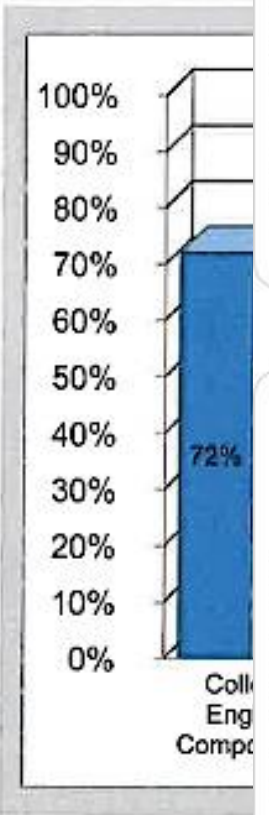


## Spring 2016 Math PARCC Scores SAMS Academy



Percentage (%) of students earning a 3,4, or 5 on the PARCC test.

Figure 1. Perc

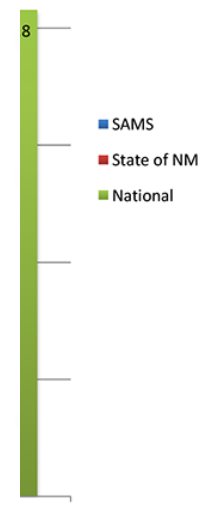


## College?

postsecondary  
established the  
mark scores for

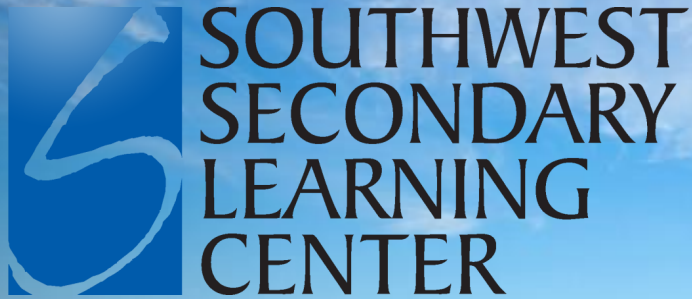
score needed on  
a 50% chance of  
% chance of  
bonding

English Test  
Mathematics Test  
Writing Test





Both SSLC and SAMS received an  
**A in College & Career Readiness**  
on the state school report card!





# ROBERT PASZTOR

**PRINCIPAL**

Southwest Secondary Learning Center (SSLC)









AUGUST  
2001

Open SSLC

AUGUST  
2005

SPLC & SILC

MAY  
2007

First Pilot

AUGUST  
2011

First Director

AUGUST  
2012

Open SAMS

Single Site

APRIL  
2005

Aviation Program  
Begins

AUGUST  
2006

First Female  
Pilot

MAY  
2010

CNM Pilot  
Program

JANUARY  
2012



AUGUST  
2012



Second Director

AUGUST  
2013



Third Director

JULY-DECEMBER  
2014



No Activity

AUGUST  
2016



ENMU-R

AV8Rs in Wings



AUGUST  
2012

Flight Sims



MARCH  
2014

Fourth Director  
First Airplane



JANUARY  
2015

Second Airplane



OCTOBER  
2016



# **DAREN GALLACHER**

## **DIRECTOR OF AVIATION**

Southwest Aeronautics, Mathematics,  
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Southwest Secondary Learning Center (SSLC)





# A LITTLE ABOUT ME

- First flight at age 8
- Bachelor's Degree in Aviation Science
- My dream
- Met with SSLC/SAMS
- December, 2014





# SSLC/SAMS AVIATION PROGRAM

- Needed to change focus
- Four main career paths:
  - Flight
  - Engineering
  - Air Traffic Control
  - Aircraft Maintenance





# DUAL ENROLLMENT



THE UNIVERSITY *of*  
NEW MEXICO



Central New Mexico  
Community College





# SSLC/SAMS AVIATION PROGRAM

- Intro to Aviation Industry
- Spring 2015: **32 students**
- Flight Physiology
- Fall 2015: **117 students**
- Aviation Weather
- Fall 2016: **112 students**
- Private Pilot Ground
- Private Pilot Flight
- Instrument Pilot Ground
- Instrument Pilot Flight





# THE BARRIERS

- Educating administration on aviation
- Writing curriculum while teaching
- Searching for Higher-Ed partners
- Setting up vendors
- Educating State D.O.E. on aviation





# THE BARRIERS

- Finding trained personnel to help
- Paradigm shift of mentality
- Private industry program > public education
- Funding





# THE BARRIERS

- Trying to code classes
- Getting licensed as state teacher
- Procuring Aircraft





# NOT BARRIERS

- Political leaders
- Parents
- Students
- State aviation community
- F.A.A.





# THINGS THAT HAVE HELPED

- Part of the Charter
- Uniforms
- Contract
- Simulators
- Budget shared between two schools





# THINGS THAT HAVE HELPED

- Parental Involvement
- Board members and administrators
- Supportive faculty
- Traditions
- PASSION!











CLASS OF 2016





# Q & A

**Daren Gallacher**

[dgallacher@samsacademy.com](mailto:dgallacher@samsacademy.com)

**Coreen Carrillo**

[ccarrillo@samsacademy.com](mailto:ccarrillo@samsacademy.com)

**Robert Pasztor**

[rpasztor@sslc-nm.com](mailto:rpasztor@sslc-nm.com)







[sslc-nm.com](http://sslc-nm.com)



[samsacademy.com](http://samsacademy.com)