

# Overview of Work Session:

6:45-6:55: Overview of CATEC and ACPS Academies

6:55-7:20: Panel Discussion with Students

7:20-7:30: Wrap Up and Transition

7:30-8:00: Break Out Sessions

8:00-8:30: Board Discussion - SWOT Analysis

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# SWOT ANALYSIS

Strengths

Weaknesses

Opportunities

Threats

“We learn what we do.”

A small, square image containing a handwritten signature in cursive, which appears to be "John Dewey". The signature is written in dark ink on a light-colored background.

# What will students do?

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*Plan and conduct research*

*Clearly communicate ideas, knowledge, and processes*

*Think analytically, critically, and creatively to pursue new ideas and acquire knowledge*

*Apply metacognitive strategies for planning and completion of collaborative projects*

*Adapt a variety of strategies to solve increasingly complex scientific problems*

*Learn critical thinking strategies within the context of engineering studies*

**Original MESA Charter presentation: PROGRAM GOALS**

“We learn what we do.”

A small, square graphic containing a handwritten signature in cursive, which appears to be "John Dewey". The signature is written in black ink on a light-colored background.

# What will the Academy be?

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A talent scout

An international beacon

A model for other school divisions

A hub for staff development of best practices

A broker for internship and collaboration

**Original MESA Charter presentation: PROGRAM GOALS**

“We learn what we do.”

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# What will the Academy teach?

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A learning-centered, action-oriented curriculum

Integrated math and science through the lens of engineering research and design

Content designed and developed by a team of teachers and engineers from ACPS, UVA, PVCC, and local and national engineering firms

Dynamic concept-centered, standards-based core intended for continuous improvement

**Original MESA Charter presentation: CURRICULUM**

# Commonalities Across CATEC and the Academies

- Real-Life and Project Based (Hands-on) Work-Based Learning Experience  
Field experiences
- Cohort of students with similar interests
- Specialized Curriculum
- Interdisciplinary Learning

# Healthcare & Medical Services Academy

# Information & Engineering Technology Academy

Auto Body

Auto Tech

Building Trades

Firefighting

Culinary

Information Systems

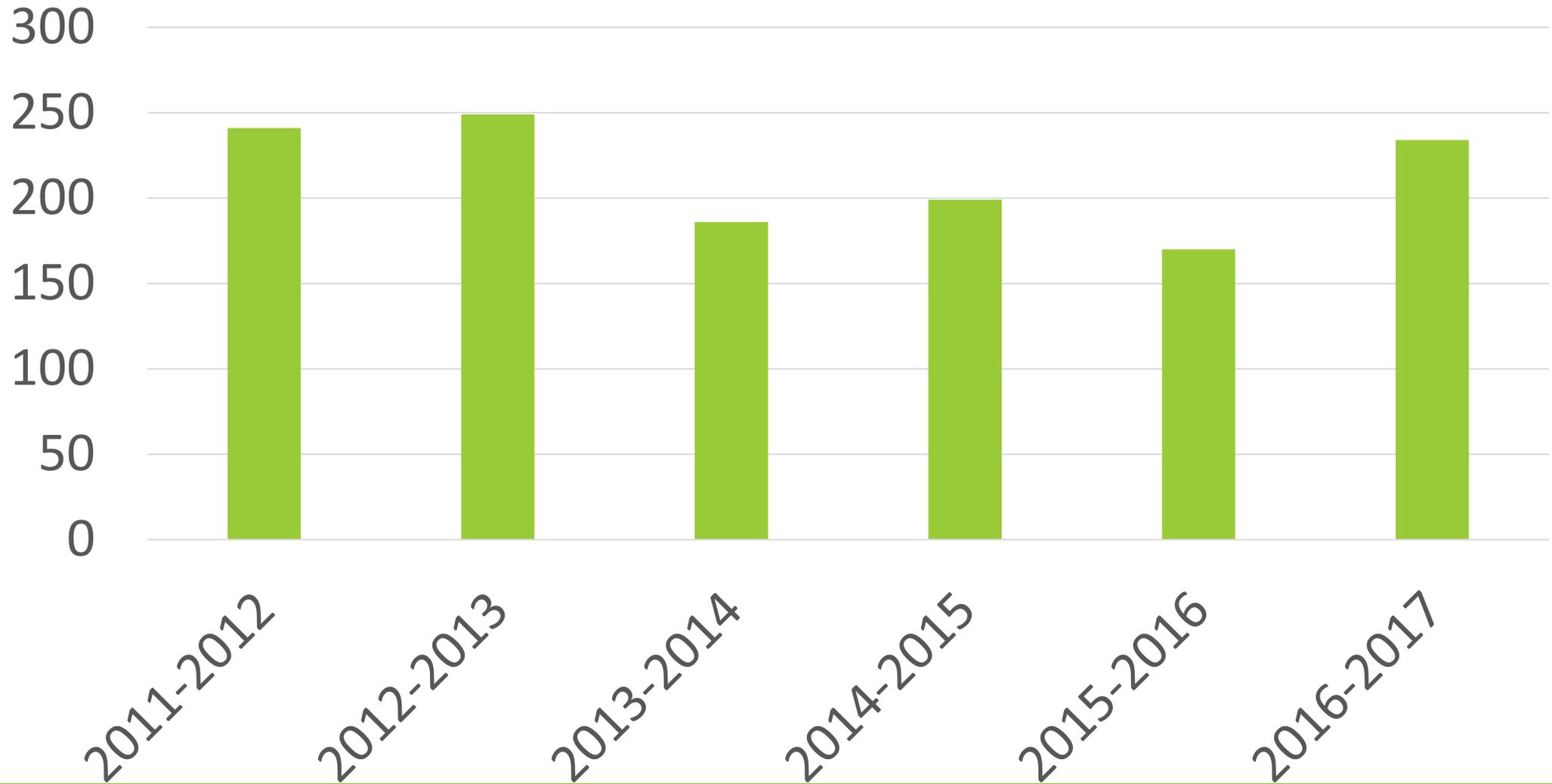
Cosmetology

Nurse Aide

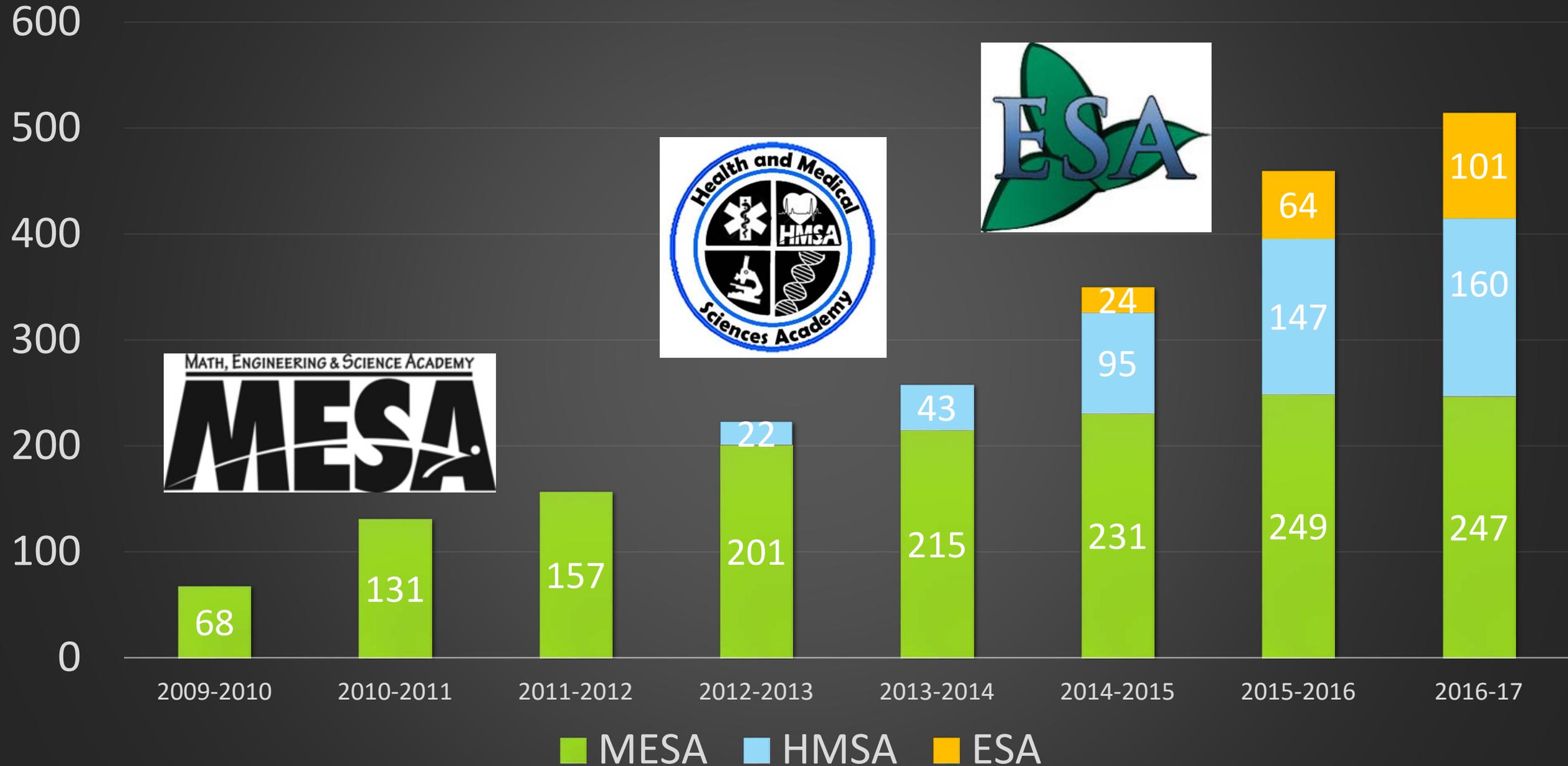
Dental Assistant

Pharmacy Technician

# CATEC Enrollment Numbers



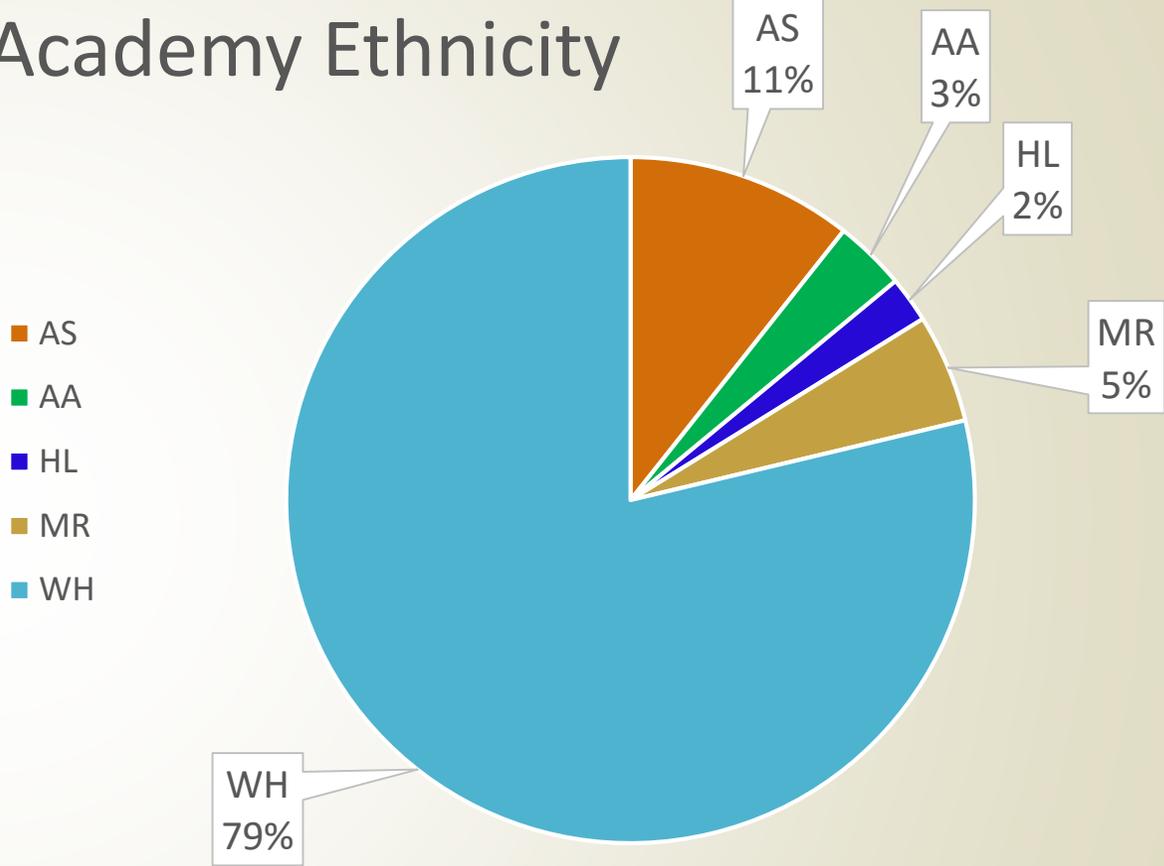
# Total number of students in ACPS Academies



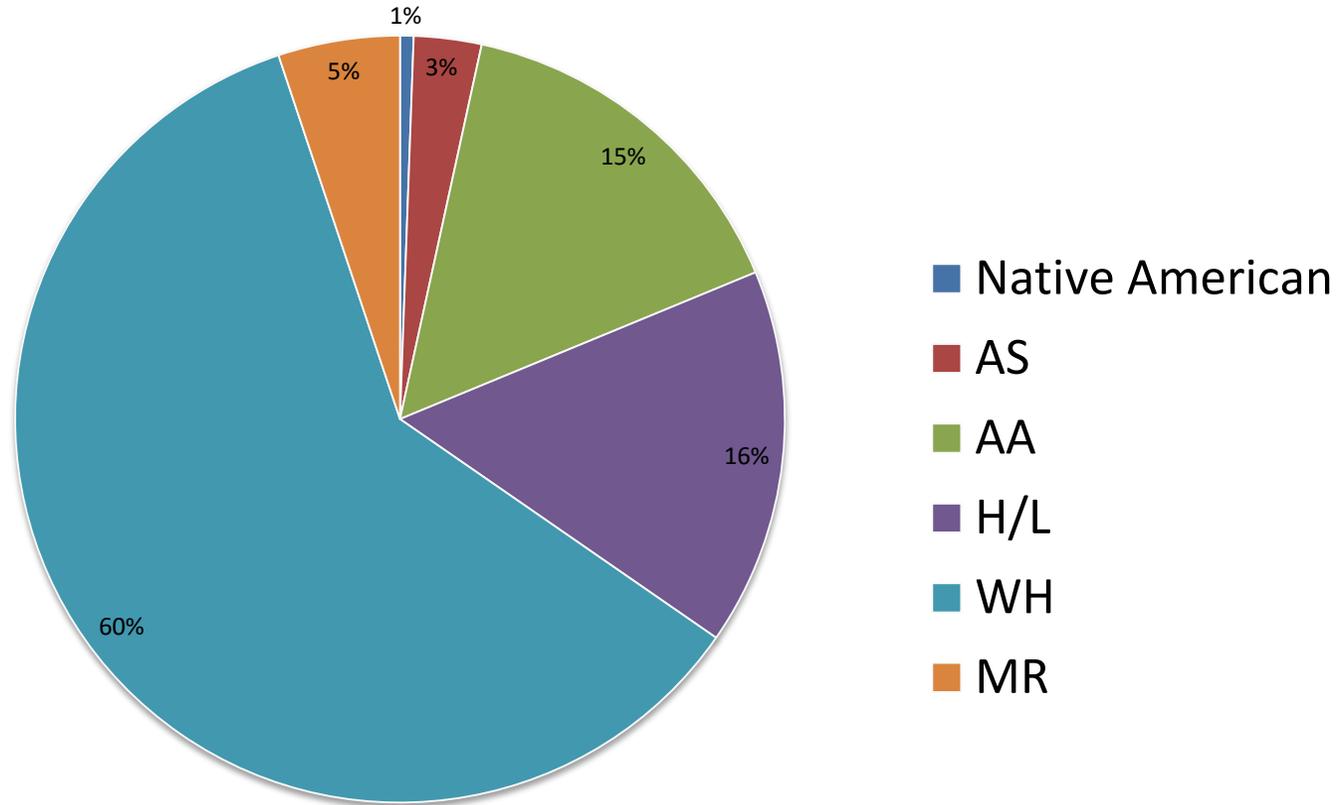
# Academy Demographics



# Academy Ethnicity

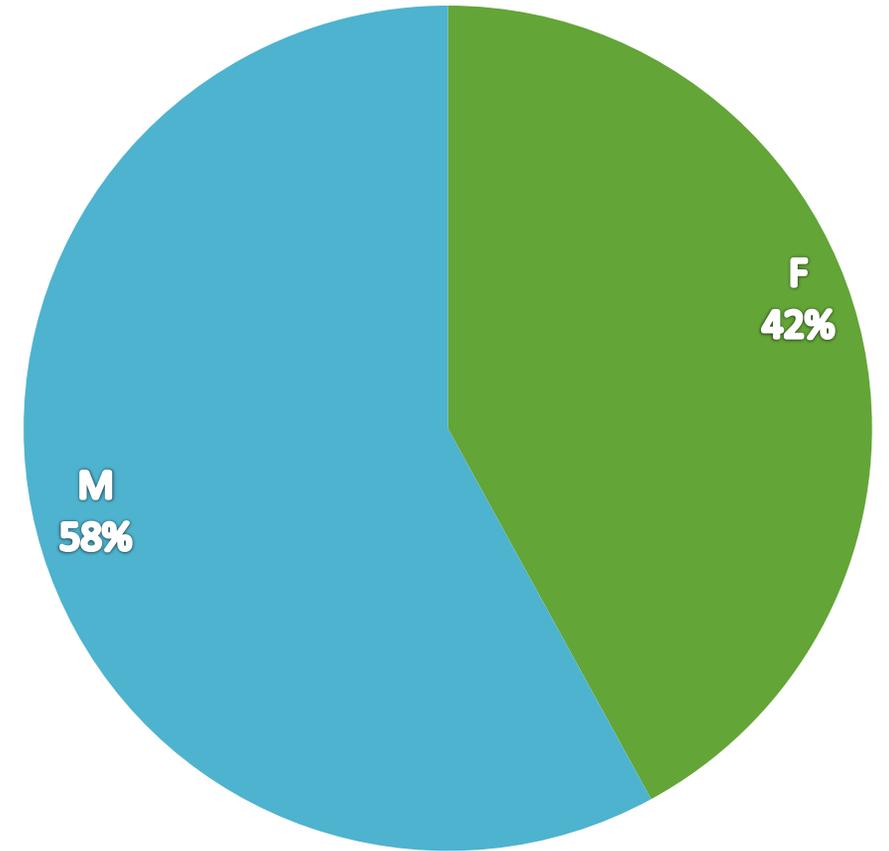


# Ethnic Makeup of ACPS CATEC Students

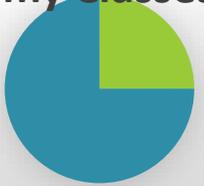
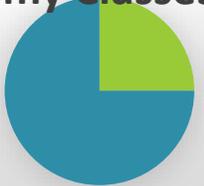


According to data updated as of 3/21/2017

# Gender of ACPS CATEC Students

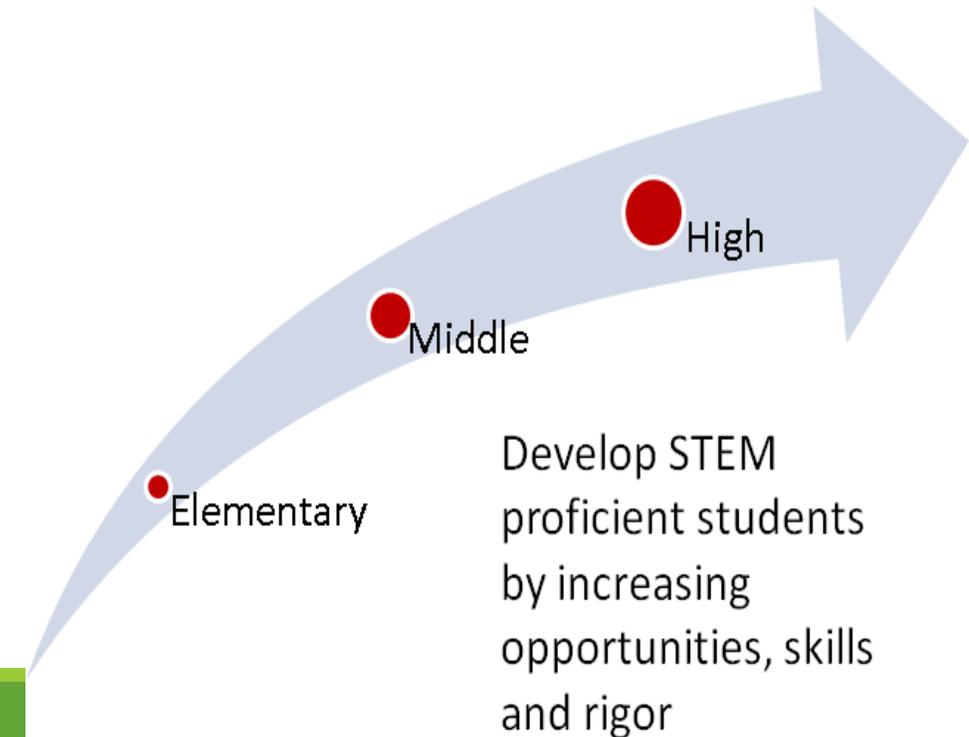


According to data updated as of 3/21/2017

Academy		CATEC	
9 <sup>th</sup> Grade	Academy Classes 		
10 <sup>th</sup> Grade	Academy Classes 		
11 <sup>th</sup> Grade	Academy Classes 	11 <sup>th</sup> Grade	CATEC Schedule 
12 <sup>th</sup> Grade	Academy Classes 	12 <sup>th</sup> Grade	CATEC Schedule 

# The Rubber Band Effect

- Support Early Education – new programs and classes
- Inspire Student Interests and Passion
- Make Connections - increase understanding
- Excite - Challenge - Prepare



# Post-Secondary Opportunities

UVA  
Virginia Tech  
James Madison  
William and Mary  
Culinary Institute of America  
Christopher Newport  
George Mason  
Virginia Commonwealth  
Univ of Richmond  
Old Dominion  
Mary Washington  
Bluefield College  
Longwood  
PVCC  
Stanford  
Bennett College for Women  
Mass Institute of Technology

Univ of Chicago  
Univ of Pennsylvania  
Duke  
North Carolina  
Purdue  
Georgia Tech  
Univ of Maryland  
Harvard  
Princeton  
Cornell  
Columbia  
Cal Berkley  
USCUTI  
Ohio Tech  
Liberty University  
North Carolina A & T  
Shenandoah Univ

Thomas Nelson Community College  
Germana Community College  
US Navy  
US Marines  
US Air Force  
University at Northwestern Ohio  
Lincoln College of Technology  
National Business College  
The Art Institute of  
CalTech  
Univ of Pittsburgh  
Univ of Illinois  
Notre Dame  
Washington  
Norfolk State University

Questions for panel:

Describe why you applied to your Academy or CATEC? What appealed to you as a student?

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Describe how your day/classes look different than your other classes?

Describe how you learn and does the Academy model or CATEC meet that need?

Talk about the importance of work-based learning experiences.

How do specialty programs offer enrichment opportunities?

Talk about the role of the teacher in your Academy/CATEC classes.

Discuss experiential learning inside and outside the classroom.

Wrap up and Transition:

What did you hear?

Break Out Sessions:  
Return at 8:00

# Board Discussion:

What do you want to know more about?

What surprised you?

SWOT Analysis

Appendix

Academy Demographics	AS	AA	HL	MR	WH	Total Students
MESA	45	4	4	14	181	248
HMSA	6	11	7	9	127	160
ESA	3	2	0	3	92	100
Total	54	17	11	26	400	508

