

UNIVERSITY OF CENTRAL ARKANSAS EDUCATION PREPARATION PROVIDER GROWTH REPORT



DIVISION OF ELEMENTARY
& SECONDARY EDUCATION

This report provides a summary of the value-added growth scores for the Educator Preparation Provider for three years of Completer Cohorts. Tables and charts are provided for review of the value-added growth scores of students associated with Completers in each Cohort.

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OVERVIEW OF VALUE-ADDED GROWTH SCORES (VAS)

A simple value-added model is used to assess student growth relative to the student's individual score history and the student's expectation of growth (predicted score). This model is often called a residual gain model. It reflects the difference between observed achievement and expected (predicted) achievement for each student. A student value-added score of 0 indicates the student met expected growth in achievement.

Teacher and Education Preparation Provider (EPP) VAS are the means of student growth in each subject: English language arts (ELA), math, and science (if available). An Overall VAS is obtained using a weighted mean of all available subjects. The Arkansas Department of Education transforms mean VAS to ease interpretation of the score. A score of 80 equals the value-added score of 0. A standard deviation of 35 is used to spread the scores around 80 so that school mean scores will typically range from 65 to 95. This formula was used in the Arkansas School Ratings starting 2015.

$$\text{Transformed Mean VAS} = (\text{Mean VAS} \times 35) + 80.00$$

Mean teacher growth scores typically range from 60 to 100 with most scores falling between 70 and 90. Averaging over higher levels of aggregation results in less variation among the Mean VAS and the values must be interpreted in this narrower range. Confidence intervals are provided to assist interpretation in the detailed sections of this report.

VAS: Making Meaning from the Scores

- **Transformed score = 80** On average, your completers' students met expected growth.
- **Transformed score greater than 80** On average, your completers' students are exceeding expected growth. The higher the score above 80, the greater the magnitude with which students of your completers exceeded their growth expectation.
- **Transformed scores less than 80** On average, students of your completers are not meeting expected growth in achievement. The lower the score below 80, the greater the degree to which students, on average, failed to meet expected growth.

*A detailed description of the value-added growth scores used by the Arkansas Department of Education can be found in the Appendix of the Rules Governing the Public School Rating System on Annual School Performance Reports and the School Recognition Program.

In the 2023 report the prior years' mean VAS scores and prior years' number of teachers/ number of students may not match prior years' reported numbers. The 2021, 2022, and 2023 mean VAS scores in this report reflect a smaller set of courses linked to students and teachers as per changes requested by the Office of Educator Effectiveness.

SUMMARY TABLE FOR UCA GROWTH SCORES BY COMPLETER COHORT

Questions for Reviewing the Table

- **Each Completer Cohort is a different group of teachers.** Completer Cohorts may differ in number of teachers in the cohort over time.
- **Review the number of teachers in each Completer Cohort.** The larger the number of teachers, the more stable the mean VAS will be.
- **Review the Mean VAS for each Completer Cohort across subjects and over time.** Note the trends (over time) for each cohort and any patterns (across subjects) within or across a cohort.

UCA - 2021 Completer Cohort (Year 1 = 2021-22)

	2021-22		2022-23		2023-24	
	VAS	N	VAS	N	VAS	N
ELA	79.41	48	80.47	49	81.44	49
MATH	78.97	31	80.12	36	79.95	45
SCIENCE	79.85	22	79.97	30	78.30	26
			2021-22	2022-23	2023-24	
NUMBER OF COMPLETERS			282	282	282	
NUMBER OF COMPLETERS WITH GROWTH DATA			80	86	85	
PERCENT OF COMPLETERS WITH GROWTH DATA			28.37	30.5	30.14	

UCA - 2022 Completer Cohort (Year 1 = 2022-23)

	2022-23		2023-24		2024-25	
	VAS	N	VAS	N	VAS	N
ELA	79.15	39	79.18	44		
MATH	78.98	39	78.73	44		
SCIENCE	79.53	27	79.16	21		
			2022-23	2023-24	2024-25	
NUMBER OF COMPLETERS			224	224		
NUMBER OF COMPLETERS WITH GROWTH DATA			75	75		
PERCENT OF COMPLETERS WITH GROWTH DATA			33.48	33.48		

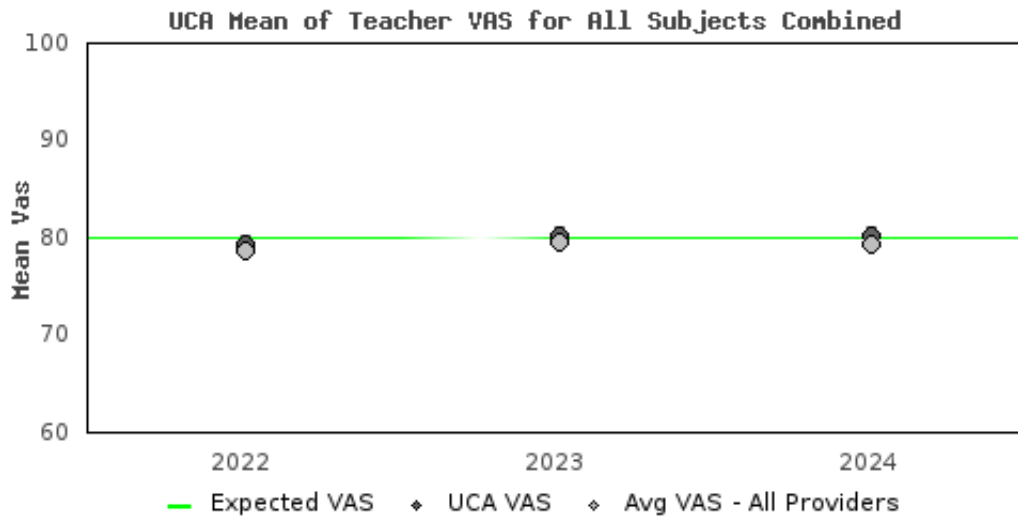
UCA - 2023 Completer Cohort (Year 1 = 2023-24)

	2023-24		2024-25		2025-26	
	VAS	N	VAS	N	VAS	N
ELA	79.48	39				
MATH	80.00	51				
SCIENCE	80.75	25				
			2023-24	2024-25	2025-26	
NUMBER OF COMPLETERS			234			
NUMBER OF COMPLETERS WITH GROWTH DATA			78			
PERCENT OF COMPLETERS WITH GROWTH DATA			33.33			

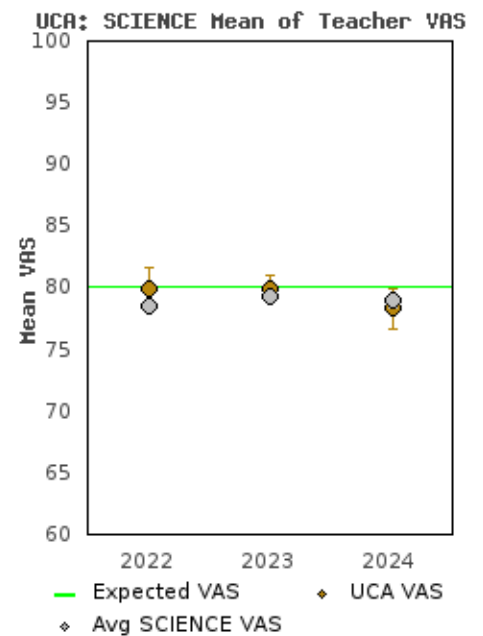
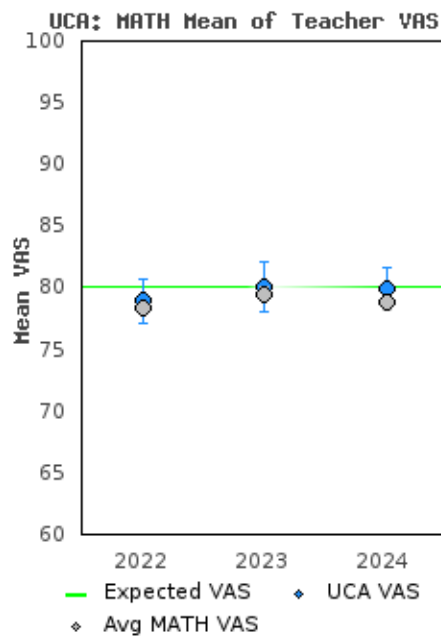
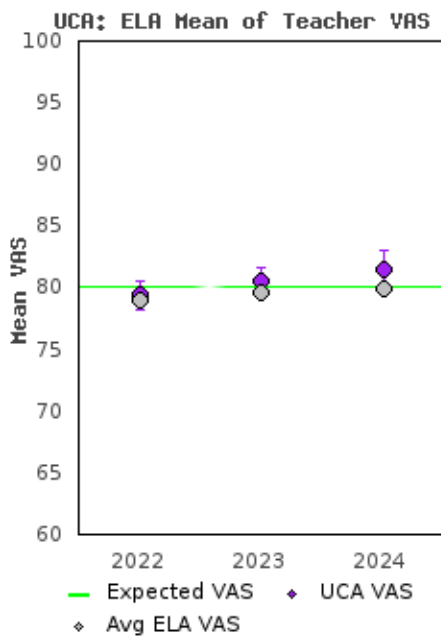
N: Total number of teachers

NOTE: Each cohort starts out as same group of teachers. Changes in N are due to changes in the subjects for which a teacher has students assigned and/or attrition of teacher(s) from a cohort.

TREND CHARTS BY PROVIDER FOR 2021 COMPLETER COHORT - UCA



VALUE-ADDED GROWTH SCORES (VAS) BY SUBJECT & YEAR

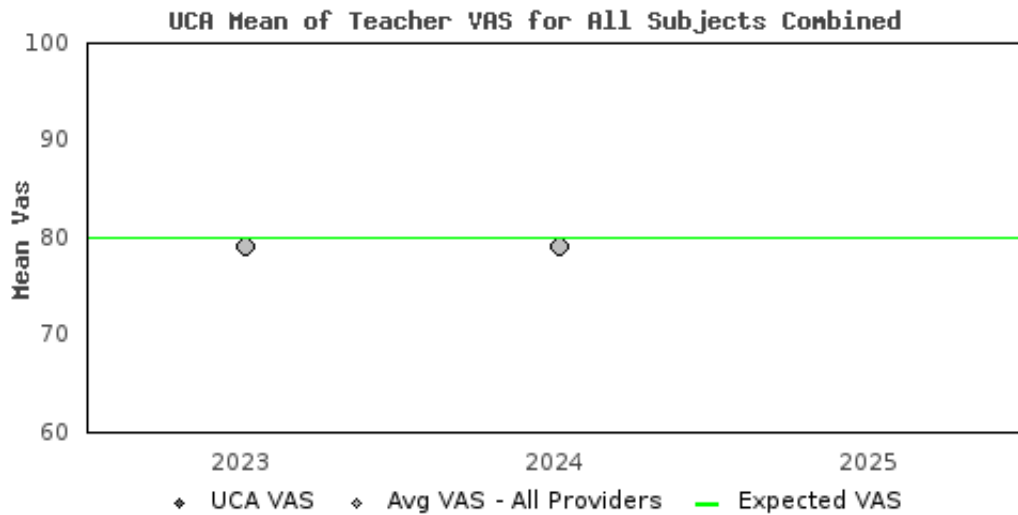


VALUE-ADDED GROWTH SCORES (VAS) WITH CONFIDENCE BAND

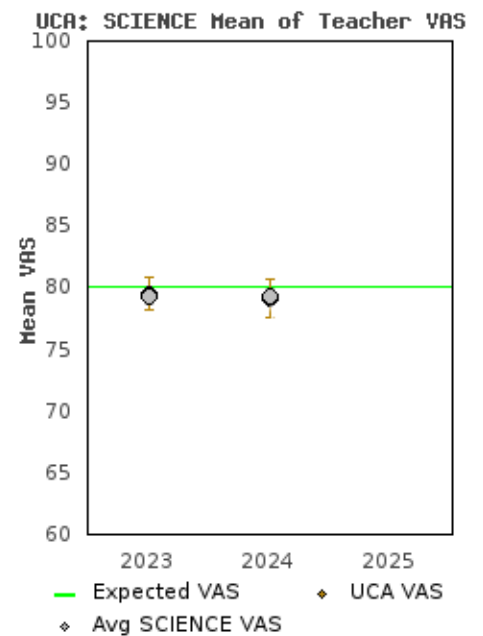
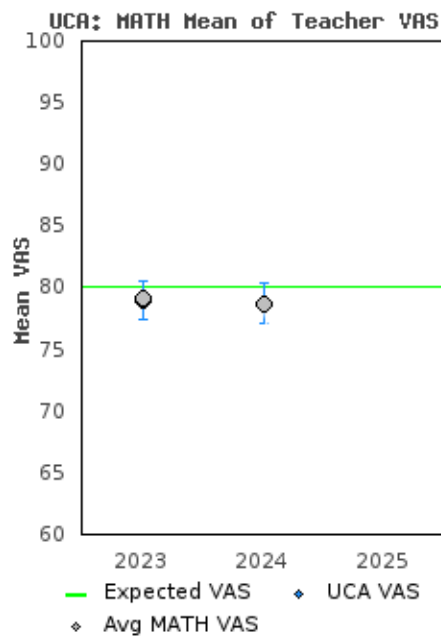
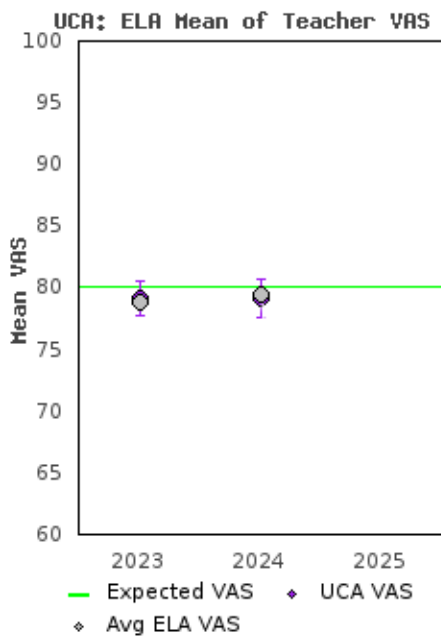
	2021-2022			2022-2023			2023-2024		
	VAS	Confidence Band	N	VAS	Confidence Band	N	VAS	Confidence Band	N
VAS FOR UCA									
ELA VAS	79.41	78.22 - 80.59	48	80.47	79.31 - 81.64	49	81.44	79.84 - 83.04	49
MATH VAS	78.97	77.19 - 80.75	31	80.12	78.13 - 82.10	36	79.95	78.32 - 81.57	45
SCIENCE VAS	79.85	78.05 - 81.64	22	79.97	78.92 - 81.02	30	78.30	76.73 - 79.88	26
AVERAGE VAS - ALL PROVIDERS									
ELA VAS	79.07	78.73 - 79.4	774	79.63	79.29 - 79.97	674	79.96	79.54 - 80.38	691
MATH VAS	78.32	77.89 - 78.75	651	79.52	78.99 - 80.05	584	78.79	78.26 - 79.32	642
SCIENCE VAS	78.58	78.13 - 79.04	421	79.35	78.92 - 79.78	396	78.96	78.42 - 79.5	341

N: Total number of teachers

TREND CHARTS BY PROVIDER FOR 2022 COMPLETER COHORT - UCA



VALUE-ADDED GROWTH SCORES (VAS) BY SUBJECT & YEAR

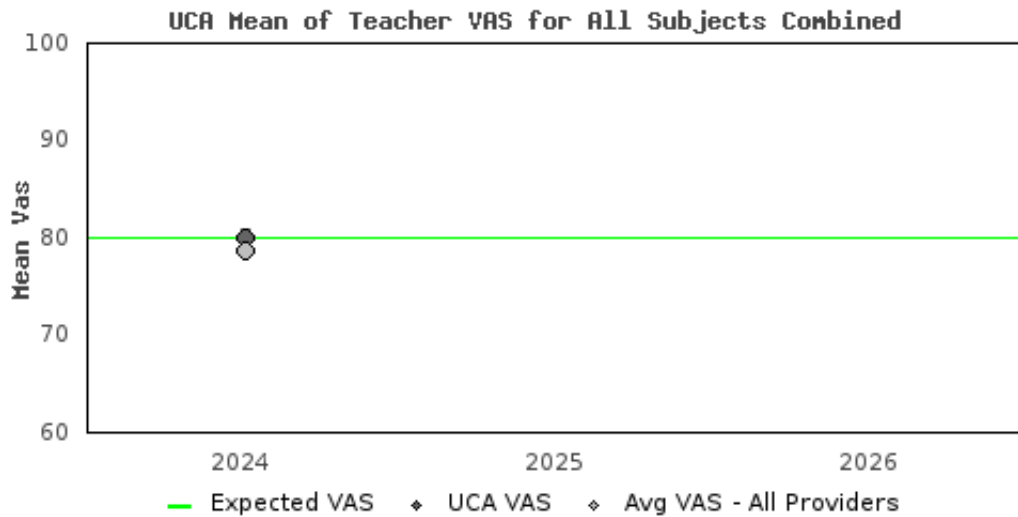


VALUE-ADDED GROWTH SCORES (VAS) WITH CONFIDENCE BAND

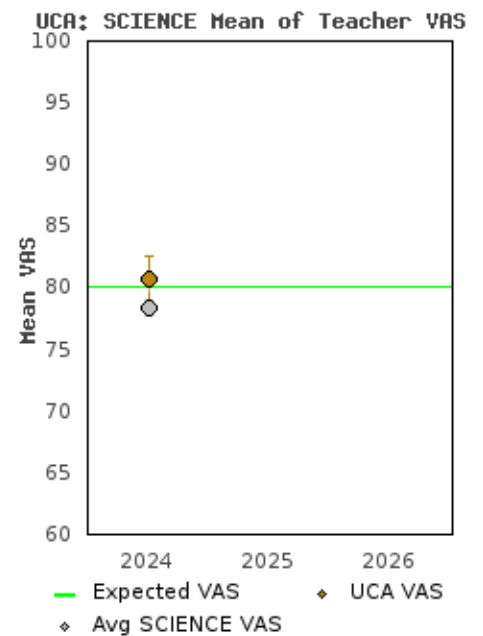
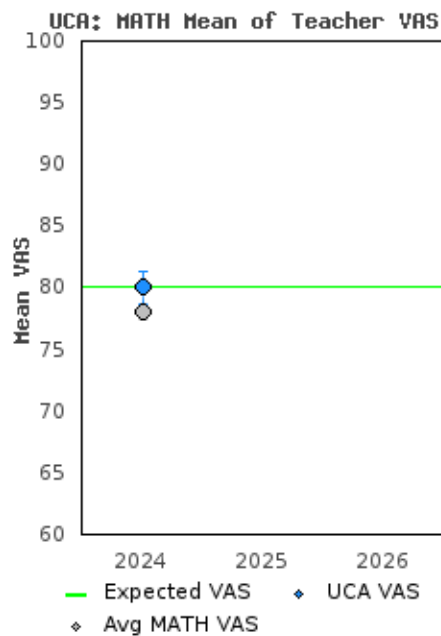
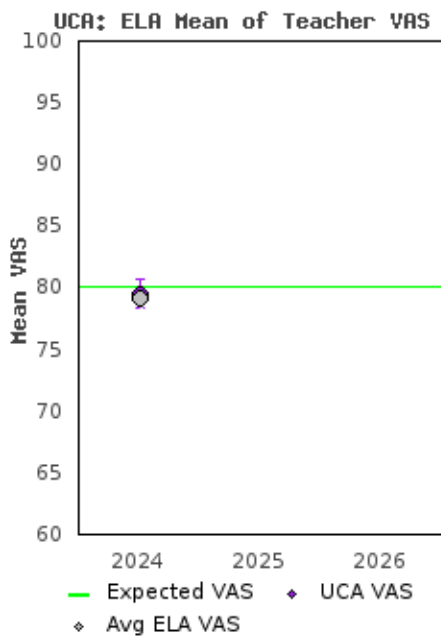
	2022-23			2023-24			2024-25		
	VAS	Confidence Band	N	VAS	Confidence Band	N	VAS	Confidence Band	N
VAS FOR UCA									
ELA VAS	79.15	77.77 - 80.53	39	79.18	77.60 - 80.76	44	-	-	-
MATH VAS	78.98	77.48 - 80.49	39	78.73	77.13 - 80.33	44	-	-	-
SCIENCE VAS	79.53	78.19 - 80.86	27	79.16	77.59 - 80.74	21	-	-	-
AVERAGE VAS - ALL PROVIDERS									
ELA VAS	78.82	78.44 - 79.2	714	79.41	79.04 - 79.79	771	-	-	-
MATH VAS	79.18	78.71 - 79.66	641	78.73	78.24 - 79.21	715	-	-	-
SCIENCE VAS	79.26	78.75 - 79.78	425	79.34	78.77 - 79.9	346	-	-	-

N: Total number of teachers

TREND CHARTS BY PROVIDER FOR 2023 COMPLETER COHORT - UCA



VALUE-ADDED GROWTH SCORES (VAS) BY SUBJECT & YEAR



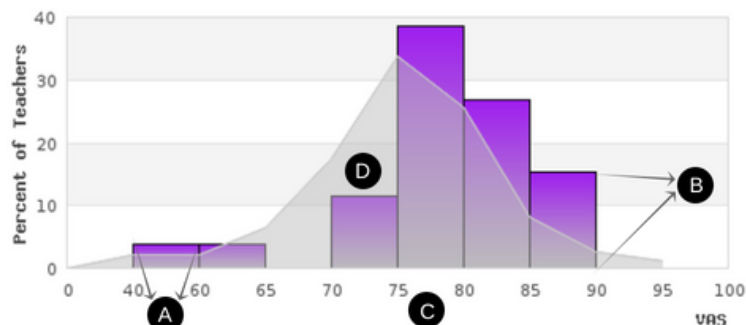
VALUE-ADDED GROWTH SCORES (VAS) WITH CONFIDENCE BAND

	2024-25			2025-26			2026-27		
	VAS	Confidence Band	N	VAS	Confidence Band	N	VAS	Confidence Band	N
VAS FOR UCA									
ELA VAS	79.48	78.32 - 80.63	39	-	-	-	-	-	-
Math VAS	80.00	78.61 - 81.39	51	-	-	-	-	-	-
Science VAS	80.75	78.92 - 82.59	25	-	-	-	-	-	-
AVERAGE VAS - ALL PROVIDERS									
ELA VAS	79.2	78.8 - 79.61	765	-	-	-	-	-	-
MATH VAS	78.04	77.5 - 78.58	759	-	-	-	-	-	-
SCIENCE VAS	78.39	77.73 - 79.05	378	-	-	-	-	-	-

N: Total number of teachers

DISTRIBUTION OF COMPLETER SCORES BY SUBJECT AND PROVIDER - UCA

Understanding Histograms



A: The width of the bar indicates the score range on the horizontal axis of the chart which is the mean value-added score achieved by students for a teacher.

B: The height of each bar in the histogram indicates the percentage of teachers in the program whose students' mean value-added scores fall within that score range.

C: The horizontal axis indicates the range of mean teacher value-added scores for each bar.

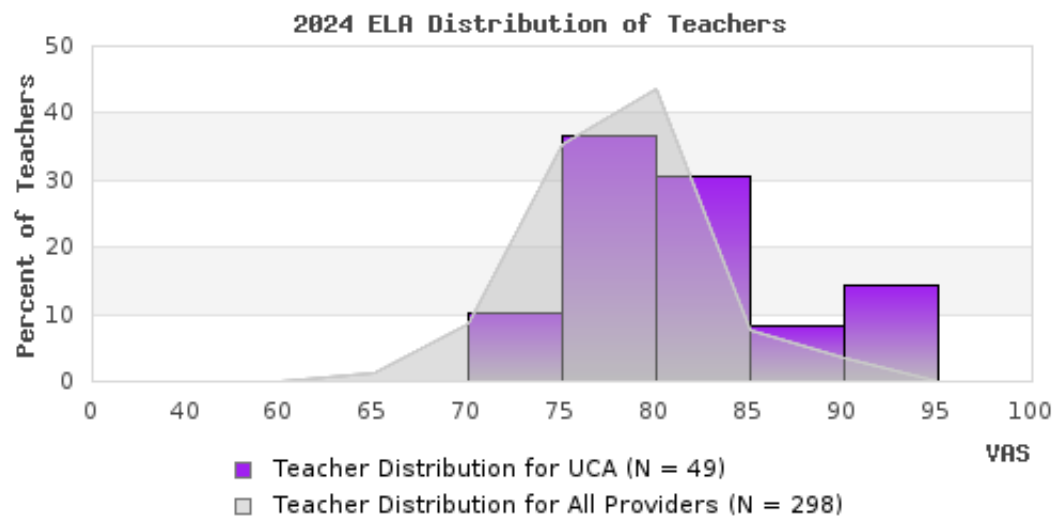
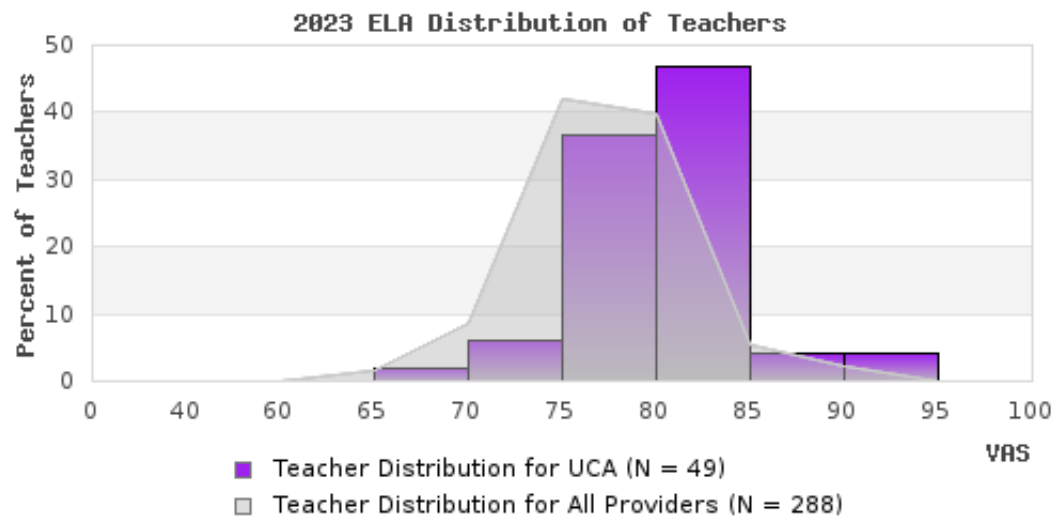
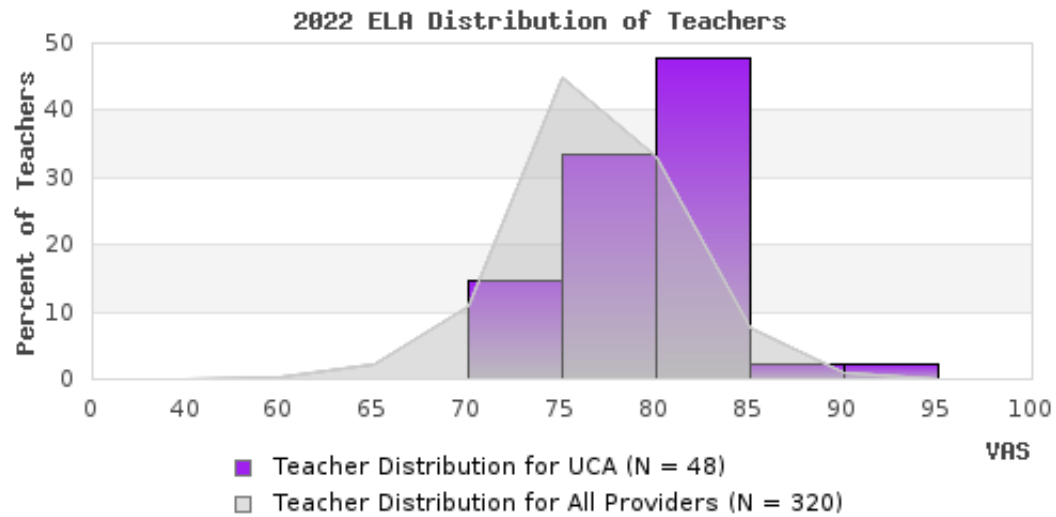
D: Gray indicates the distribution of mean teacher value-added scores (VAS) across all providers.

Information for Reviewing Teacher Mean VAS Distributions

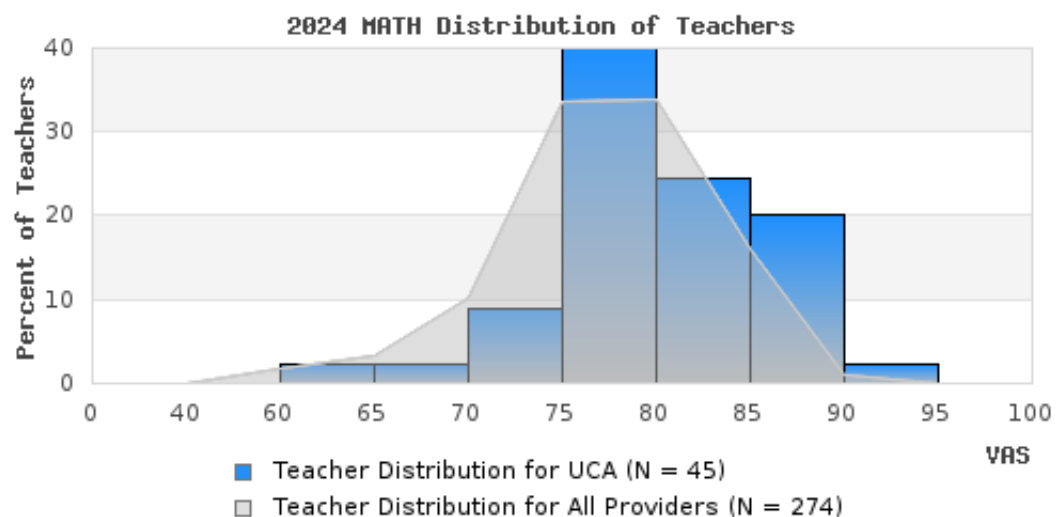
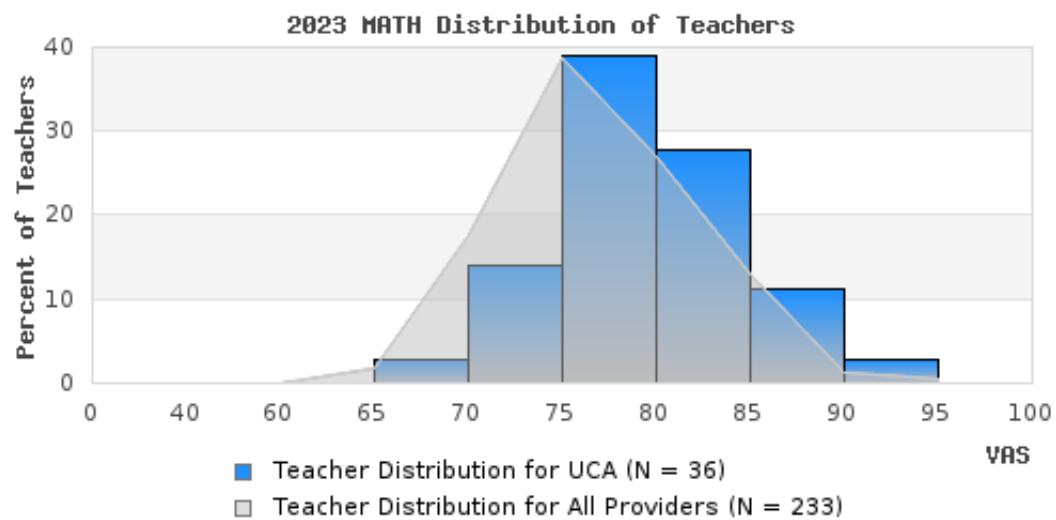
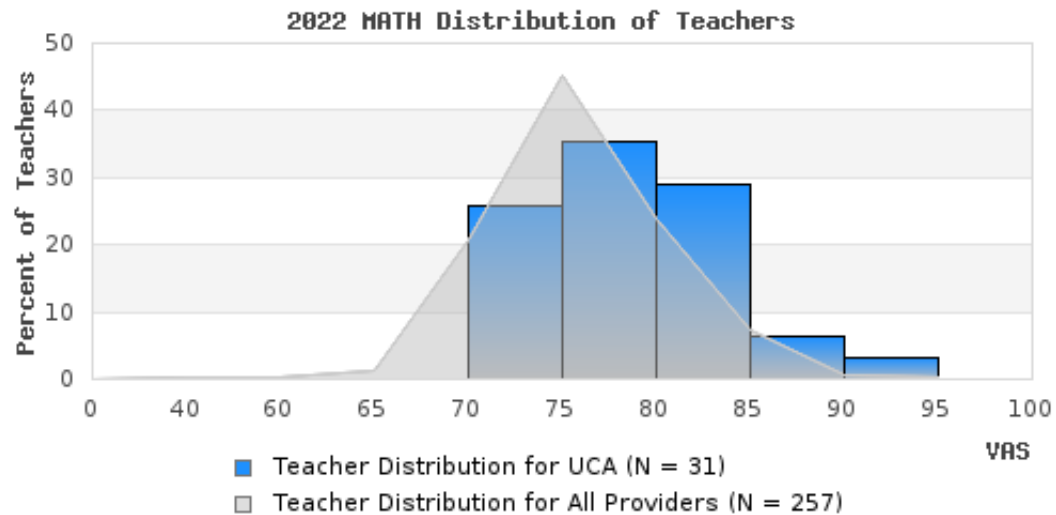
These charts show the distribution (spread and concentration) of teachers' mean VAS. Each bar indicates the percentage of teachers whose mean VAS for a particular subject fell within the score range of the bar. For example, if the bar interval on the x-axis runs from 75 to 80 and the height of the bar reaches 35 on the y-axis, then 35% of teachers in this Completer Cohort had mean VAS between a 75 and 80 for the subject represented in the chart.

- **Review the shape of the distributions.**
- **Look at how spread out or concentrated teachers' scores are for each subject. Compare your teacher VAS distribution to the statewide EPP VAS (all providers) distribution.**

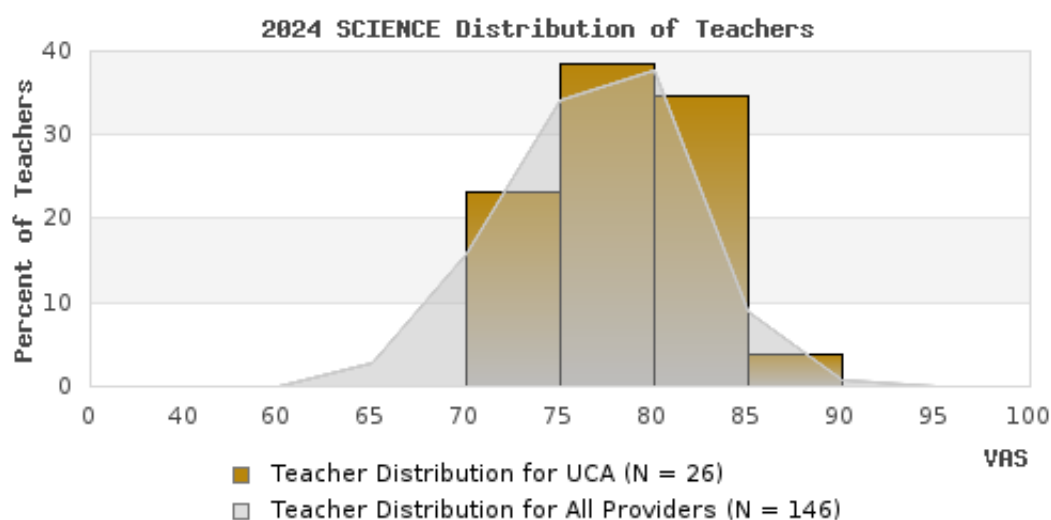
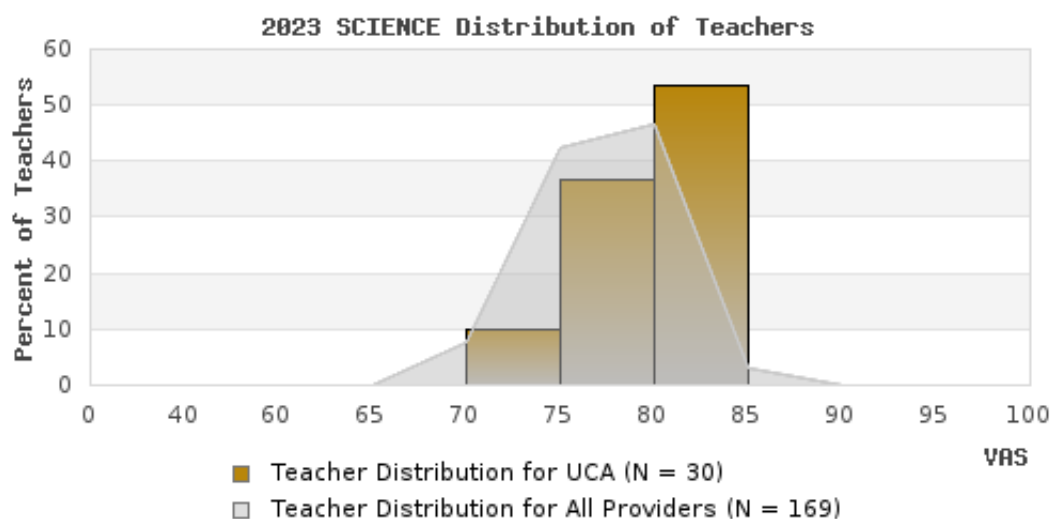
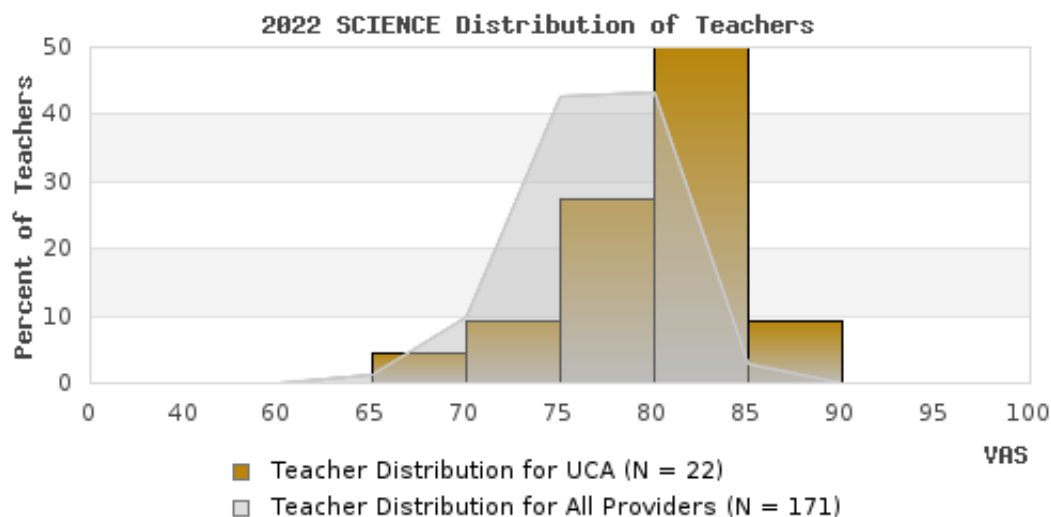
DISTRIBUTION OF 2021 COMPLETER SCORES BY ELA AND PROVIDER - UCA



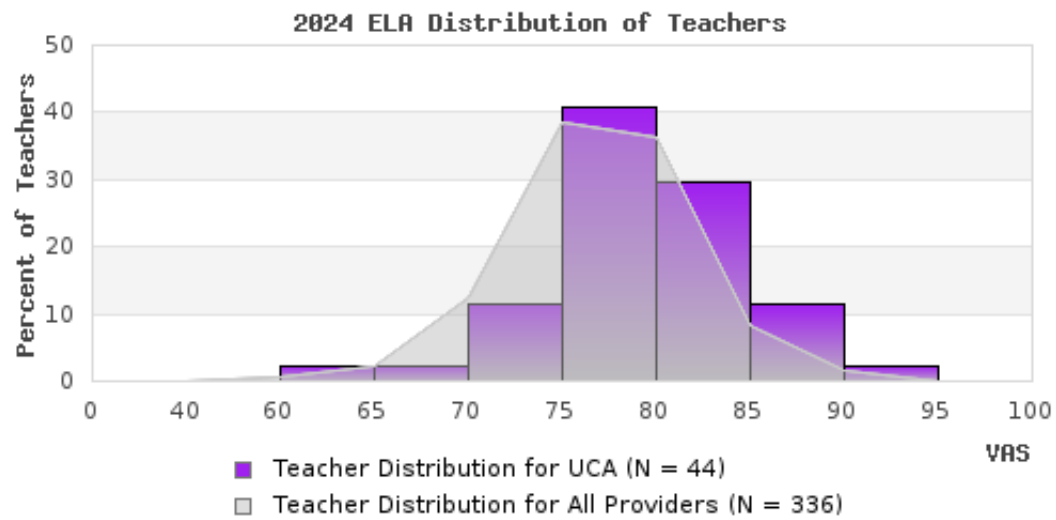
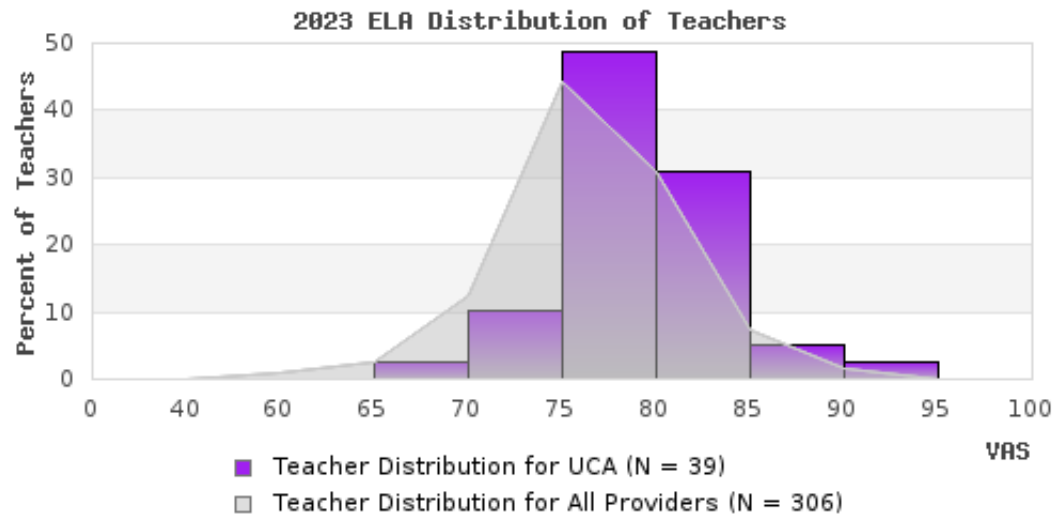
DISTRIBUTION OF 2021 COMPLETER SCORES BY MATHEMATICS AND PROVIDER - UCA



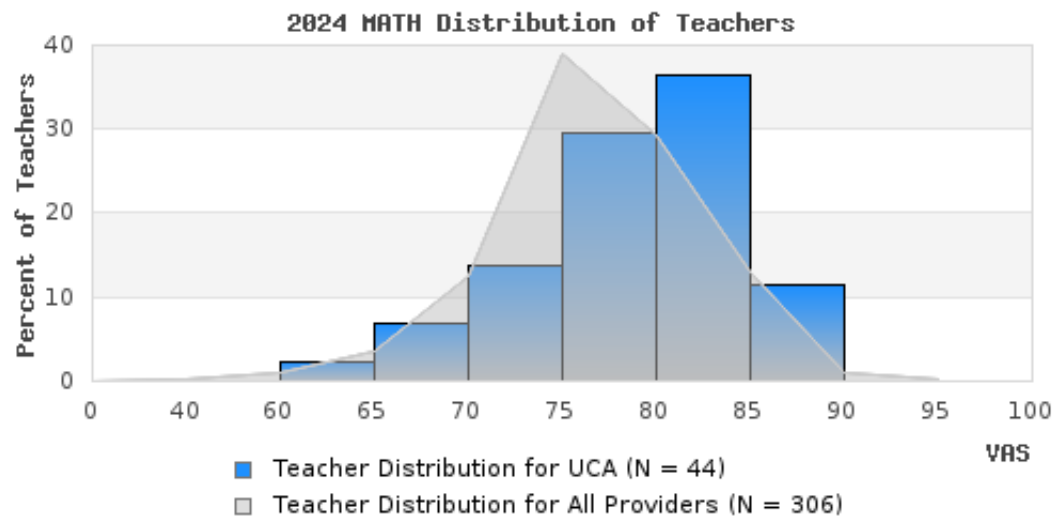
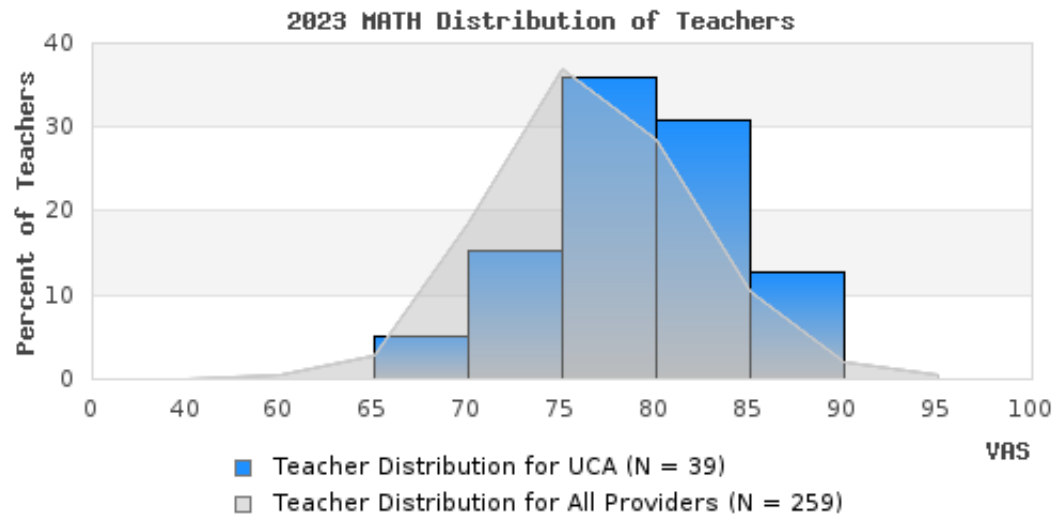
DISTRIBUTION OF 2021 COMPLETER SCORES BY SCIENCE AND PROVIDER - UCA



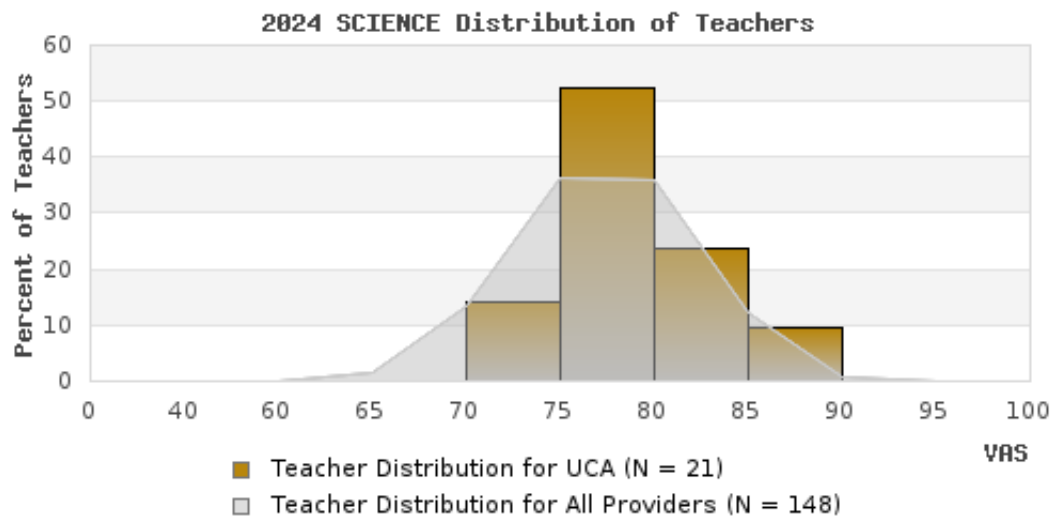
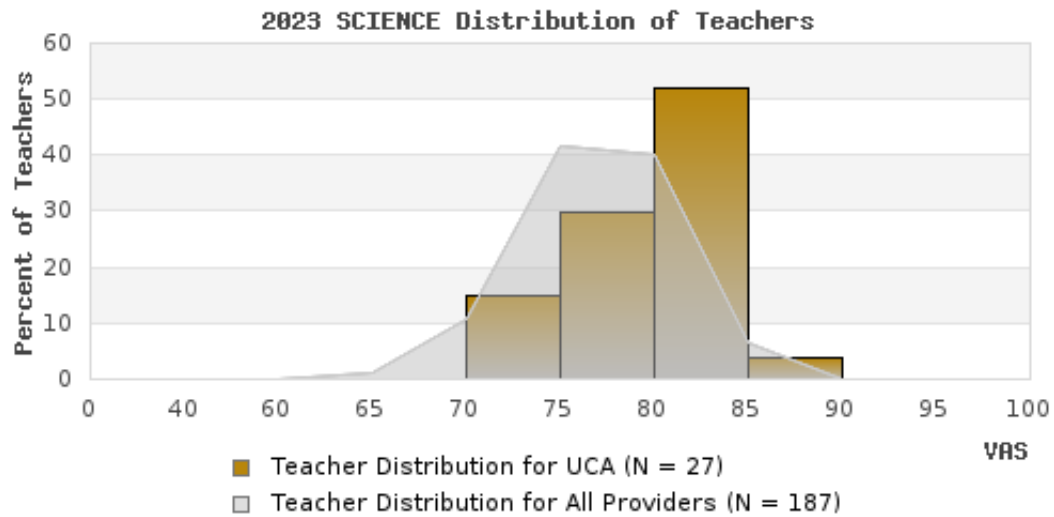
DISTRIBUTION OF 2022 COMPLETER SCORES BY ELA AND PROVIDER - UCA



DISTRIBUTION OF 2022 COMPLETER SCORES BY MATHEMATICS AND PROVIDER - UCA



DISTRIBUTION OF 2022 COMPLETER SCORES BY SCIENCE AND PROVIDER - UCA



DISTRIBUTION OF 2023 COMPLETER SCORES FOR PROVIDER - UCA

