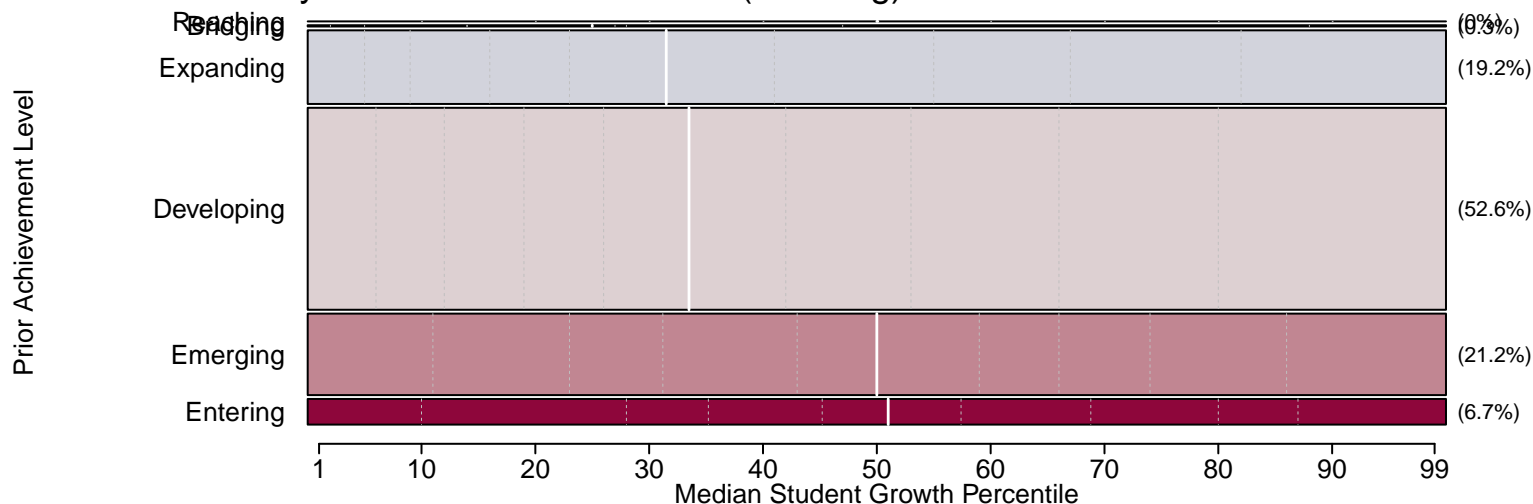# Student Growth Percentile Goodness–of–Fit Descriptives

2021 Reading SGP, Grade 8 (N = 3,369)

SGP Deciles by Prior Achievement Level (Reading)

Prior Achievement Level (top to bottom):
- Reaching (0.3%)
- Expanding (19.2%)
- Developing (52.6%)
- Emerging (21.2%)
- Entering (6.7%)

X-axis: Median Student Growth Percentile (1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99)

Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)

		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[244,279)	54.2	25.0	12.5	4.2	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	N = 24
	[279,287]	27.6	24.1	17.2	20.7	6.9	0.0	3.4	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[409,415)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	41.7	20.8	33.3	N = 24
	[415,440]	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	19.2	65.4	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[203,299)	8.13	5.42	8.13	10.84	14.16	13.55	9.04	8.13	12.65	9.94	(9.9%)
2nd/[299,315)	8.38	11.38	10.48	5.99	9.28	13.17	13.77	16.17	5.39	5.99	(9.9%)
3rd/[315,326)	8.43	8.43	13.86	10.54	15.06	11.14	11.45	9.34	5.12	6.63	(9.9%)
4th/[326,339)	11.21	14.08	10.06	14.94	14.08	9.77	10.06	8.05	3.45	4.31	(10.3%)
5th/[339,347)	11.90	11.58	15.76	12.22	10.93	7.72	8.68	7.07	5.14	9.00	(9.2%)
6th/[347,353)	17.79	13.80	15.95	11.66	8.59	7.36	7.67	7.06	5.52	4.60	(9.7%)
7th/[353,358)	19.94	15.89	17.76	13.08	6.54	6.54	6.23	4.05	3.74	6.23	(9.5%)
8th/[358,364)	19.15	16.62	12.96	10.99	9.86	6.76	5.92	7.32	6.20	4.23	(10.5%)
9th/[364,372)	18.50	18.21	12.43	9.83	7.51	8.09	8.38	6.36	5.20	5.49	(10.3%)
10th/[372,409)	23.08	12.36	11.54	12.91	8.24	6.32	8.79	3.85	7.69	5.22	(10.8%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0–100) vs Empirical SGP Distribution (0–100)