## ELA & Math Growth – New for 2022

- Growth is measured by Mean Student Growth Percentile (Mean SGP)
  - Average of individual student growth percentiles (SPGs)
- Key criteria for selecting a growth measure was that different student groups have access to the full range of growth scores
  - Works because students' progress is compared to students who started out in the same place the year prior

#### NEW for 2022 – Two ways of calculating an SGP

- Cohort: comparing a student to their academic peers
  - Same subject
  - Same grade
  - Same academic year
  - Same prior scale score\*
    - SGP calculation includes multiple years of data
- **Baseline**: comparing a student to their academic peers from a prior baseline year (i.e. 2019)
- Use the SGP with the higher state mean



# ELA & Math Growth – New for 2022

- Cohort and baseline SGPs are only interesting when they're different
  - A baseline SGP is often calculated to validate cohort SGP calculations
- Statewide learning acceleration efforts over the next several years may cause the distribution of the baseline-referenced SGP to shift above the midpoint of the cohortreferenced SGP of 50.
- Cohort SGP remains the default score used, but when the state mean baseline SGP is above 50, the baseline SGP for each student is used instead.

#### In 2022, the <u>baseline SGP</u> will be used as the <u>state mean is higher than 50</u>.





- Blue bars are frequency distribution of actual 2018 school mean cohort SGPs.
- Orange line simulates mean baseline SGP frequency distributions where the state average has dropped from 50 to 30 (as occurred in 2021).
- Green line simulates mean baseline SGP frequency distributions where the state average has risen to 60 (hypothetical situation)



## Sample 2022 Cohort vs Baseline SGP Data

ELA	Cohort	Baseline	Difference	Math	Cohort	Baseline	Difference
Grade 04	97	99	2	Grade 04	66	70	4
Grade 04	67	76	9	Grade 04	89	90	1
Grade 04	96	96	0	Grade 04	39	39	0
Grade 05	52	61	9	Grade 05	90	93	3
Grade 05	45	53	8	Grade 05	92	93	1
Grade 05	44	57	13	Grade 05	89	89	0
Grade 06	98	99	1	Grade 06	43	45	2
Grade 06	20	22	2	Grade 06	36	45	9
Grade 06	85	88	3	Grade 06	92	97	5
Grade 07	40	39	-1	Grade 07	20	26	6
Grade 07	2	2	0	Grade 07	31	32	1
Grade 07	93	95	2	Grade 07	35	39	4
Grade 08	69	70	1	Grade 08	84	90	6
Grade 08	33	31	-2	Grade 08	58	60	2
Grade 08	52	52	0	Grade 08	58	65	7
Average	59.53	62.67	3.13	Average	61.47	64.87	3.4



#### ELA & Math Growth

- ELA Growth: Average of individual SGPs
- Score formula remains the same:
- [(ELA\_MSGP \* 20/9)) 62.222222222]
- [(Math\_MSGP \* 20/9)) 62.222222221]
  - Ceiling of 73, floor of 28
  - Distribution of the "all student" groups
  - Less than 5% of schools in the tails





#### **Growth Example: President Middle**

-
_

Group	ELA MSGP	Points	Math MSGP	Points	
All	52.59	54.64	44.46	36.58	
White	53.85	57.44	51.92	53.16	
Black	52.11	53.58	39.84	26.31	
Hispanic	50.57	50.16	43.61	34.69	
Asian	52.19	53.76	49.50	47.78	
Pacific Islander					
Native American					
Multi-racial	42.82	32.93	37.00	20.00	
EL	45.66	39.24	39.86	26.36	
Former EL	51.40	52.00	42.09	31.31	
CWD	44.48	36.62	35.97	17.71	
Low Income	51.00	51.11	41.41	29.80	



#### Finding Mean SGP – IAR Scores Grid Report

#### SIS Assessment Scores Grid □ SGP Column 🐑 Illinois Helpful Resources Contact Technical Support State Board of Education SIS Reports Annie Rae Clementz -**Q** Search Reports... 삼 Home Student A 🍟 Student -2 Assessment Assessment Enrollment Verification -Assessment -3 Illinois Assessment of Readiness (IAR) Adjusted Cohort IAR Assessment and Test Window - STEP 1 Details 💶 Teacher IAR Assessment Pre-ID - STEP 2 Details Summary IAR Assessment Correction Summary Details ₽ Early Childhood Transition IAR Assessment Scores Summary Details 触 Prenatal IAR Assessment Scores Grid 4 Summary 1 Market Reports DLM-AA -SAT/PSAT -🟦 Batch File Processing Unassigned Test Results -Loa Out F https://apps.isbe.net/SIS/Report/wfViewReportCommon.aspx?report=204 ssessment Reports -



#### IAR Scores Grid Report SGP Column

2022 IAR Assessment Scores (Summary Grid)

9/7/2022 12:17 pm

Assessment Home School:

Selection Criteria: None

	English Language Arts/Literacy									Mathematics						
			Level 1	Level 2	Level 3	Level 4	Level 5	SGP			Level 1	Level 2	Level 3	Level 4	Level 5	SGP
	Total	No	Did Not	Partially	Approached	Met	Exceeded	Percent	Total	No	Did Not	Partially	Approached	Met	Exceeded	Percent
Grade Level: All	Records	Score	Yet Meet Expectations	Expectations	Expectations	Expectations	Expectations		Records	Score	Yet Meet Expectations	Met Expectations	Expectations	Expectations	Expectations	
Total Students	436	4	143	116	91	71	11	53.89	436	6	160	132	100	37	1	51.92
Total Student Growth Percentile (SGP)	251							53.89	234							51.92
Report Suppression: 01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Report Suppression: 05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Valid Scores	436	4	143	116	91	71	11	53.89	436	6	160	132	100	37	1	51.92
Test Format: Online	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	0	0.00
Test Format: Paper	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	0	0.00
Gender: Male	193	3	68	59	32	30	1	51.49	193	3	68	53	51	18	0	52.99
Gender: Female	243	1	75	57	59	41	10	56.24	243	3	92	79	49	19	1	50.85
Gender: Non-Binary	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0	0	0.00
Test Code: ELA03	77	2	39	13	13	8	2	0.00	0	0	0	0	0	0	0	0.00
Test Code: ELA04	48	0	18	13	10	6	1	45.69	0	0	0	0	0	0	0	0.00
Test Code: ELA05	64	1	26	19	13	5	0	40.79	0	0	0	0	0	0	0	0.00
Test Code: ELA06	74	0	14	31	21	8	0	53.82	0	0	0	0	0	0	0	0.00
Test Code: ELA07	85	1	22	15	16	24	7	67.40	0	0	0	0	0	0	0	0.00
Test Code: ELA08	88	0	24	25	18	20	1	55.07	0	0	0	0	0	0	0	0.00
Test Code: MAT03	0	0	0	0	0	0	0	0.00	77	2	32	19	12	11	1	0.00
Test Code: MAT04	0	0	0	0	0	0	0	0.00	48	1	19	13	12	3	0	42.21
Test Code: MAT05	0	0	0	0	0	0	0	0.00	64	2	27	21	9	5	0	50.76
Test Code: MAT06	0	0	0	0	0	0	0	0.00	74	0	26	26	20	2	0	57.57
Test Code: MAT07	0	0	0	0	0	0	0	0.00	85	1	20	25	33	6	0	52.12
Test Code: MAT08	0	0	0	0	0	0	0	0.00	88	0	36	28	14	10	0	52.95
Race/Ethnicity: Asian (13)	2	0	0	0	0	2	0	96.00	2	0	0	0	1	1	0	99.00
Race/Ethnicity: Black or African American (14)	11	0	4	5	0	2	0	43.90	11	1	5	4	0	1	0	38.00
Race/Ethnicity: Hispanic or Latino (11)	410	4	133	108	89	65	11	54.67	410	5	149	123	98	34	1	52.60
Race/Ethnicity: Two or More Races (17)	4	0	1	1	1	1	0	68.00	4	0	1	2	1	0	0	65.00
Race/Ethnicity: White (16)	9	0	5	2	1	1	0	26.40	9	0	5	3	0	1	0	26.40
IDEA Services: Yes	68	3	51	11	3	0	0	36.00	68	3	51	9	5	0	0	34.49
EL Indicator: Yes	152	0	74	42	31	5	0	50.99	152	0	73	49	28	2	0	50.33
FRL/Low Income Indicator: Yes	410	4	138	110	86	66	6	52.97	410	6	152	126	97	28	1	51.76