September 20, 2022

To:	Dr. Kate Carter, Superintendent of Schools
From:	Tracie Peterson, Assistant Superintendent for Curriculum & Instruction
Subject:	Summary of 2022 Student Assessment Results – Smarter Balanced, NGSS, and CT SAT

This report provides an overview and summary of district assessment results for standardized tests that were administered in the spring of 2022. The information included below provides context for comparing district results with the performance in the state and District Reference Group (DRG) B which will be presented at the Board of Education meeting on September 27, 2022. The report also includes next steps recommended through collaboration with Candice Irwin, Robyn Ongley and Arnica Sullivan, K-12 Curriculum Specialists for English Language Arts, Mathematics and Science, respectively.

I.   Overview

The state of Connecticut has transitioned to state assessments which are aligned with the state standards for each core curricular area. The Connecticut Smarter Balanced assessments (SBAC) are aligned to Connecticut Core Standards in English language arts/literacy and mathematics and are administered yearly in grades 3 – 8. The Connecticut SAT is administered to all students in grade 11, and tests proficiency in the areas of ELA and mathematics. The Next Generation Science Standards (NGSS) test is administered in the spring in grades 5, 8, and 11. Due to the COVID-19 pandemic no state testing was administered in the school year 2019-2020.

To summarize the state testing requirements, the following table illustrates each of the assessments administered to students in the spring of 2022:

	3	4	5	6	7	8	11
SBAC - English Language Arts/Math	X	X	X	X	X	X	
NGSS - Science			X			X	X
CT SAT - Reading, Writing and Language, Math							X

II.   Smarter Balanced Assessment – Grades 3 - 8

SBAC assessments for ELA and mathematics were administered in the spring 2022 to students in Grades 3 through 8. Results are reported among performance levels 1 through 4 (from 1, "Does Not Meet Achievement Level" to 4, "Exceeds Achievement Level"). **Table 1** and **Table 2** below provide the South Windsor data for ELA and mathematics, respectively. *(See DRG B comparisons in Appendices A and B.)*

	Level 1	Level 2	Level 3	Level 4	Levels 3 and 4 *% Meets or Exceeds Achievement Level*		
Table 1: English Language Arts **2022 Smarter Balanced Assessment Results by Grade and Level**							
Grade	*% Does Not Meet Achievement Level*	*% Approaching Achievement Level*	*% Meets Achievement Level*	*% Exceeds Achievement Level*	*2019*	*2021*	*2022*
3	9%	12%	25%	54%	**79%**	**61%**	**79%**
4	13%	17%	25%	45%	**75%**	**73%**	**70%**
5	10%	13%	29%	48%	**78%**	**74%**	**77%**
6	10%	16%	42%	33%	**71%**	**66%**	**75%**
7	12%	14%	40%	35%	**70%**	**68%**	**75%**
8	13%	19%	39%	29%	**73%**	**65%**	**68%**
SW avg					75%	67%	74%
CT State avg					56%	47%	49%

Table 2: Mathematics 2022 Smarter Balanced Assessment Results by Grade and Level							
	Level 1	Level 2	Level 3	Level 4	Levels 3 and 4 *% Meets or Exceeds Achievement Level*		
Grade	*% Does Not Meet Achievement Level*	*% Approaching Achievement Level*	*% Meets Achievement Level*	*% Exceeds Achievement Level*	*2019*	*2021*	*2022*
3	10%	10%	29%	52%	**83%**	**68%**	**80%**
4	9%	21%	29%	40%	**76%**	**68%**	**69%**
5	11%	20%	24%	45%	**66%**	**63%**	**69%**
6	14%	21%	26%	39%	**67%**	**59%**	**65%**
7	18%	17%	24%	41%	**67%**	**53%**	**65%**
8	23%	23%	25%	29%	**68%**	**53%**	**54%**
SW avg					71%	60%	67%
CT State avg					48%	35%	40%

The Smarter Balanced assessment results also provide important data regarding the performance of subgroups. **Table 3** below provides SBAC data for subgroups based on ethnicity, students with disabilities, English Learners, and high needs students.

Table 3: English Language Arts and Mathematics 2022 Smarter Balanced Results by Subgroup								
	English Language Arts *% of Students at Levels 3 and 4*				Mathematics *% of Students at Levels 3 and 4*			
Subgroup	**SW 2019**	**SW 2021**	**SW 2022**	**State 2022**	**SW 2019**	**SW 2021**	**SW 2022**	**State 2022**
Asian	87%	78%	86%	73%	90%	77%	85%	71%
Black or African American	49%	50%	55%	29%	39%	31%	39%	16%
Hispanic/Latino	60%	51%	54%	30%	50%	36%	38%	20%
White	75%	70%	72%	64%	70%	61%	65%	55%
Students with Disabilities	27%	23%	23%	15%	22%	16%	17%	11%
English Learners	45%	39%	46%	11%	48%	39%	43%	11%
High Needs	47%	36%	45%	28%	42%	37%	37%	20%

III.   Next Generation Science Standards – Grades 5, 8, and 11

NGSS assessments were administered in the spring 2022 to students in grades 5, 8 and 11. Results are reported among performance levels 1 through 4 (from 1, "Does Not Meet Achievement Level" to 4, "Exceeds Achievement Level"). **Table 4** below provides the South Windsor data for NGSS, respectively. *(See DRG B comparisons in Appendix C.)*

Table 4: Science 2022 Next Generation Science Assessment Results by Grade and Level						
	Level 1	Level 2	Level 3	Level 4	Levels 3 and 4 *% Meets or Exceeds Achievement Level*	
Grade	*% Does Not Meet Achievement Level*	*% Approaching Achievement Level*	*% Meets Achievement Level*	*% Exceeds Achievement Level*	*2021*	*2022*
5	7%	19%	40%	35%	**74%**	**74%**
8	11%	23%	50%	17%	**65%**	**67%**
11	16%	27%	38%	19%	**70%**	**57%**
SW avg					68%	66%
CT State avg					48%	47%

The Next Generation Science Standards results also provides important data regarding the performance of subgroups. **Table 5** below provides NGSS data for subgroups based on ethnicity, students with disabilities, and English Learners.

Table 5: Science 2022 Next Generation Science Results by Subgroup			
	Science % of Students at Levels 3 and 4		
Subgroup	SW 2021	SW 2022	State 2022
Asian	83%	82%	70%
Black or African American	38%	40%	24%
Hispanic/Latino	55%	52%	28%
White	68%	74%	61%
Students with Disabilities	28%	23%	16%
English Learners	17%	10%	9%

IV.   Connecticut SAT – Grade 11

The Connecticut SAT was administered in March 2022 to eleventh grade students. South Windsor's participation rate was 98.3%. **Table 6** below provides the South Windsor data for ELA and mathematics, respectively. The table also provides comparative data for state results. *(See DRG B comparisons in Appendix D.)*

Table 6: South Windsor 2022 CT SAT Assessment Results English Language Arts and Mathematics – Grade 11 Students					
	ELA Average	Math Average	2020 Total Average Score	2021 Total Average Score	2022 Total Average Score
South Windsor	541	550	1118	1086	1091
State of CT	501	486	N/A	1010	987

V.   District Highlights and Summary

While 2021 student performance reflected expected learning loss, 2022 student performance has in most grade levels returned to pre-pandemic performance levels with a slight decline in mathematics. However, South Windsor continues to outperform state averages by at least 20 percentage points in both ELA and Math rebounding from three years of interrupted learning.

SBAC - English Language Arts: South Windsor's performance in ELA demonstrates increased achievement levels for matched cohorts of students. From 2021 to 2022 in grades 4 and 7 cohort data showed improvement in performance of 9 percentage points. Additionally, South Windsor performed competitively in our DRG with 3rd grade performance landing at the top of the DRG.

SBAC – Mathematics: South Windsor's performance in math demonstrates slight increases for matched cohorts with the greatest gain of 6 percentage points from students who were in 6th grade in 2021 to 7th grade in 2022. When compared to our DRG, South Windsor math performance was competitive with our 3rd graders having the second highest performance in the DRG.

SBAC - Subgroup Performance: Subgroup data shows that South Windsor students scored well above the state averages in ELA and math. Black or African American performance in ELA showed increases from pre-pandemic performance of 6 percentage points. In math our subgroup performance is beginning to get closer to pre-pandemic performance with Hispanic students showing the greatest gap of 12 points.

NGSS – Science: South Windsor students demonstrated consistent performance on NGSS with the exception of 11th grade performance experiencing a 13-point decline. However, South Windsor's average performance in all 3 grades outperformed the State by almost 20 points.

NGSS - Subgroup Performance: All South Windsor subgroups outperformed the state. While most subgroup performance mirrored last year's performance our English Learners did see a 7-point decline while our White students saw a 6-point increase from 2021 to 2022.

Connecticut SAT: The South Windsor average overall SAT score experienced a 5-point increase from 2021 to 2022 closer to pre-pandemic performance. Our performance in ELA is 40 points over State performance and 64 points above the State average in mathematics.

VI.	Next Steps for Curriculum and Instruction

In addition to continuing to provide a rich, rigorous, engaging instruction at all levels, next steps will include:
- Implementing a common teaching and learning framework K-12
- Using data at all levels to accelerate learning
- Continuing K-12 Implementation of multi-tiered student supports and interventions
- Increasing professional learning for high school staff regarding the SAT
- Continuing integration of Portrait of a Graduate attributes explicitly into the curriculum and instructional practices
- Continued use of instructional technology to enhance learning experience
- Increasing voice and choice for staff related to professional learning
- Continuing implementation of elementary math program
- Continuing K-12 implementation of SEL framework
- Expanding use of coaches K-8 to support tier 1 instructional practices
- Expanding opportunities for STEM enrichment at the elementary level

2022 DRG B COMPARISONS

Smarter Balanced Assessments - English Language Arts - Performance by Grade
Percent at Levels 3 and 4 - "Meets or Exceeds the Achievement Level"

ENGLISH LANGUAGE ARTS					
DRG B	**Grade 3**	**DRG B**	**Grade 4**	**DRG B**	**Grade 5**
South Windsor	**78.9**	Woodbridge	79.1	Woodbridge	83.5
Madison	78.1	Simsbury	78.8	Guilford	82.8
Greenwich	77.3	Trumbull	78.8	Madison	82.6
Guilford	76.5	Fairfield	77.9	Trumbull	81.3
Monroe	76.3	Cheshire	76.5	Cheshire	79.9
Newtown	73.9	Farmington	76.1	Monroe	78.5
Cheshire	73.5	Greenwich	75.8	Glastonbury	77.8
Woodbridge	73.4	Madison	74.0	Fairfield	77.7
Simsbury	72.6	Glastonbury	72.7	**South Windsor**	**77.3**
Fairfield	70.9	Newtown	72.4	Greenwich	76.4
Glastonbury	70.9	Monroe	72.0	Avon	76.3
Avon	68.9	**South Windsor**	**69.9**	Orange	75.6
West Hartford	68.8	New Fairfield	69.6	New Fairfield	74.0
Orange	68.1	West Hartford	69.3	Simsbury	73.9
Trumbull	68.1	Orange	68.2	Farmington	72.9
Farmington	67.5	Guilford	68.1	Granby	71.0
Granby	60.4	Avon	66.7	Newtown	70.9
Brookfield	56.1	Region 15	60.8	West Hartford	66.9
Region 15	55.2	Brookfield	58.6	Region 15	63.6
New Fairfield	51.9	Granby	57.5	Brookfield	49.5
State of CT	46.7	State of CT	49.2	State of CT	51.9

DRG B	**Grade 6**	**DRG B**	**Grade 7**	**DRG B**	**Grade 8**
Woodbridge	85.4	Region 5	79.7	Avon	78.5
Simsbury	82.5	Farmington	78.3	Guilford	78.5
Farmington	81.3	Monroe	77.7	Greenwich	76.8
Cheshire	79.3	Newtown	76.5	New Fairfield	76.5
Orange	76.8	Greenwich	74.7	Monroe	74.5
Monroe	75.7	**South Windsor**	**74.5**	Trumbull	73.1
Madison	75.2	Simsbury	74.3	Newtown	72.8
South Windsor	**74.5**	Avon	74.0	Farmington	70.4
Fairfield	74.1	Trumbull	73.7	Simsbury	70.0
Guilford	73.3	Glastonbury	71.9	Glastonbury	68.7
Glastonbury	73.0	Guilford	71.0	**South Windsor**	**68.6**
Greenwich	71.5	Madison	70.6	West Hartford	68.6
Avon	69.5	New Fairfield	69.9	Region 5	67.7
Trumbull	64.3	Cheshire	68.8	Fairfield	67.6
Newtown	64.2	Fairfield	67.7	Cheshire	67.4
Granby	63.1	Granby	64.7	Granby	66.0
West Hartford	61.9	West Hartford	64.5	Madison	61.6
Region 15	59.8	Region 15	59.8	Brookfield	60.8
Brookfield	59.1	Brookfield	57.7	Region 15	50.8
New Fairfield	57.6				
State of CT	47.9	State of CT	49.7	State of CT	49.2

2022 DRG B COMPARISONS

Smarter Balanced Assessments – Mathematics - Performance by Grade
Percent at Levels 3 and 4 – "Meets or Exceeds the Achievement Level"

MATHEMATICS					
DRG B	**Grade 3**	**DRG B**	**Grade 4**	**DRG B**	**Grade 5**
Cheshire	81.3	Woodbridge	80.6	Cheshire	71.9
South Windsor	**80.4**	Simsbury	78.4	Glastonbury	70.9
Woodbridge	79.8	Farmington	76.6	Madison	70.7
Madison	78.8	Fairfield	74.5	Fairfield	70.0
Greenwich	78.1	Greenwich	74.4	Trumbull	69.2
Newtown	77.7	Glastonbury	73.4	**South Windsor**	**69.1**
Guilford	75.1	Trumbull	73.3	New Fairfield	67.3
Monroe	74.7	Guilford	69.9	Woodbridge	66.1
Fairfield	73.5	Cheshire	69.1	Simsbury	65.9
Trumbull	73.0	**South Windsor**	**69.0**	Greenwich	64.8
Simsbury	72.6	Newtown	68.1	Avon	62.7
Glastonbury	72.4	Madison	67.6	Guilford	61.2
Farmington	70.0	New Fairfield	65.8	Farmington	60.7
Orange	68.8	Monroe	65.3	Monroe	58.9
West Hartford	68.4	Region 15	64.7	Orange	58.9
New Fairfield	63.6	Avon	64.1	West Hartford	58.1
Region 15	63.5	West Hartford	64.1	Newtown	57.6
Granby	63.1	Orange	57.2	Region 15	54.4
Avon	62.6	Brookfield	52.1	Granby	46.7
Brookfield	58.6	Granby	48.5	Brookfield	28.3
State of CT	47.4	State of CT	45.3	State of CT	38.8

DRG B	**Grade 6**	**DRG B**	**Grade 7**	**DRG B**	**Grade 8**
Madison	80.6	Madison	71.1	Guilford	71.2
Woodbridge	79.7	Glastonbury	68.2	Avon	67.2
Cheshire	77.6	Region 5	67.5	New Fairfield	67.2
Guilford	72.0	Trumbull	66.7	Greenwich	62.7
Orange	71.3	Newtown	66.3	Trumbull	62.1
Simsbury	71.3	Farmington	65.3	Madison	61.6
Glastonbury	70.4	**South Windsor**	**65.3**	Farmington	59.8
Farmington	69.1	Greenwich	64.5	Region 5	58.1
Fairfield	68.9	Cheshire	64.3	Glastonbury	57.9
Trumbull	66.4	Monroe	62.9	Cheshire	57.4
South Windsor	**64.8**	Avon	62.1	Newtown	56.4
Greenwich	63.8	Simsbury	60.9	Fairfield	56.1
Avon	60.2	Region 15	60.5	**South Windsor**	**54.3**
Newtown	59.9	New Fairfield	59.5	West Hartford	54.3
New Fairfield	57.6	Fairfield	57.8	Simsbury	52
Region 15	56.9	Guilford	56.8	Brookfield	51.6
Brookfield	54.4	West Hartford	50.9	Region 15	47.3
Granby	54.1	Granby	45.2	Monroe	46.4
West Hartford	52.5	Brookfield	43.5	Granby	44.3
Monroe	51.7				
State of CT	37.1	State of CT	37.9	State of CT	34.3

2022 DRG B COMPARISONS

Next Generation Science Standards - Performance by Grade
Percent at Levels 3 and 4 – "Meets or Exceeds the Achievement Level"

Science					
DRG B	**Grade 5**	**DRG B**	**Grade 8**	**DRG B**	**Grade 11**
Woodbridge	81.8	Simsbury	74.7	Simsbury	87.9
Trumbull	81.5	Guilford	73.6	Greenwich	79.9
Farmington	80.8	New Fairfield	72.7	Granby	77.4
Cheshire	80.6	Avon	72.0	Avon	76.9
Granby	80.4	Greenwich	71.7	Farmington	75.3
Guilford	79.7	Farmington	71.6	Trumbull	73.6
Fairfield	75.7	Granby	71.2	West Hartford	70.1
South Windsor	**74.2**	Cheshire	68.2	Region 5	68.4
New Fairfield	73.8	Monroe	67.2	Glastonbury	64.9
Monroe	73.4	Newtown	67.0	Fairfield	62.8
Glastonbury	72.6	**South Windsor**	**66.5**	Guilford	62.1
Madison	71.9	Trumbull	66.1	Monroe	58.3
Greenwich	71.3	Glastonbury	64.3	Brookfield	57.6
Orange	70.8	West Hartford	63.7	**South Windsor**	**57.3**
Simsbury	67.7	Madison	63.2	Cheshire	56.3
Avon	67.5	Fairfield	61.9	Region 15	54.6
Newtown	66.3	Region 5	59.7	Madison	53.1
West Hartford	63.0	Brookfield	54.0	Newtown	51.5
Region 15	59.5	Region 15	50.8	New Fairfield	38.6
Brookfield	51.9				
State of CT	50.0	State of CT	46.6	State of CT	43.8

DRG B COMPARISONS
2022 Connecticut SAT Assessment for 11th Grade Students
English Language Arts

MEETS OR EXCEEDS ACHIEVEMENT LEVEL				AVERAGE SCORE			
DRG B	Count	%	Average Score	DRG B	Count	%	Average Score
Region 5	307	86.6%	576	Simsbury	281	84.0%	577
Simsbury	281	84.0%	577	Region 5	307	86.6%	576
Farmington	288	81.6%	573	Avon	227	81.1%	576
Avon	227	81.1%	576	Farmington	288	81.6%	573
Fairfield	702	80.3%	562	Greenwich	655	77.7%	570
Guildford	284	80.3%	565	Guilford	284	80.3%	565
Glastonbury	455	79.1%	563	Glastonbury	455	79.1%	563
Region 15	264	78.8%	550	Fairfield	702	80.3%	562
Cheshire	317	78.7%	553	Cheshire	319	78.7%	553
Greenwich	655	77.7%	570	Madison	215	76.3%	553
Monroe	237	77.6%	548	Region 15	264	78.8	550
Granby	123	76.4%	547	West Hartford	700	74.6%	549
Madison	215	76.3%	553	Monroe	237	77.6%	548
Trumbull	485	75.5%	546	Granby	123	76.4%	547
West Hartford	700	74.6%	549	Trumbull	485	75.5%	546
Brookfield	210	73.3%	539	**South Windsor**	**339**	**69.9%**	**541**
Newtown	345	72.5%	539	Brookfield	210	73.3%	539
South Windsor	**339**	**69.9%**	**541**	Newtown	345	72.5%	539
New Fairfield	143	65.0%	513	New Fairfield	143	65.0%	513
State of CT	35,638	55.6%	501	State of CT	35,638	55.6%	501

2022 Connecticut SAT Assessment for 11th Grade Students
Mathematics

MEETS OR EXCEEDS ACHIEVEMENT LEVEL				AVERAGE SCORE			
DRG B	Count	%	Average Score	DRG B	Count	%	Average Score
Avon	227	66.5%	574	Region 5	307	66.4%	576
Region 5	307	66.4%	576	Avon	227	66.5%	574
Simsbury	281	66.2%	562	Madison	215	64.7%	564
Glastonbury	455	65.1%	563	Glastonbury	455	65.1%	563
Madison	215	64.7%	564	Greenwich	654	62.5%	563
Greenwich	654	62.5%	563	Simsbury	281	66.2%	562
Trumbull	485	62.3%	557	Guilford	284	60.6%	562
Guilford	284	60.6%	562	Farmington	287	60.3%	558
Region 15	264	60.6%	550	Trumbull	485	62.3%	557
Farmington	287	60.3%	558	Fairfield	702	59.4%	553
Fairfield	702	59.4%	553	**South Windsor**	**339**	**56.3%**	**550**
Newtown	345	57.7%	545	Region 15	264	60.6%	550
West Hartford	698	57.2%	545	Newtown	345	57.7%	545
South Windsor	**339**	**56.3%**	**550**	West Hartford	698	57.2%	545
Cheshire	319	53.0%	541	Cheshire	319	53.0%	541
Monroe	237	51.9%	536	Monroe	237	51.9%	536
Brookfield	210	50.0%	530	Brookfield	210	50.0%	530
Granby	123	45.5%	530	Granby	123	45.5%	530
New Fairfield	142	42.3%	508	New Fairfield	142	42.3%	508
State of CT	35,562	34.8%	486	State of CT	35,562	34.8%	486