

SOUTH SIDE HIGH SCHOOL

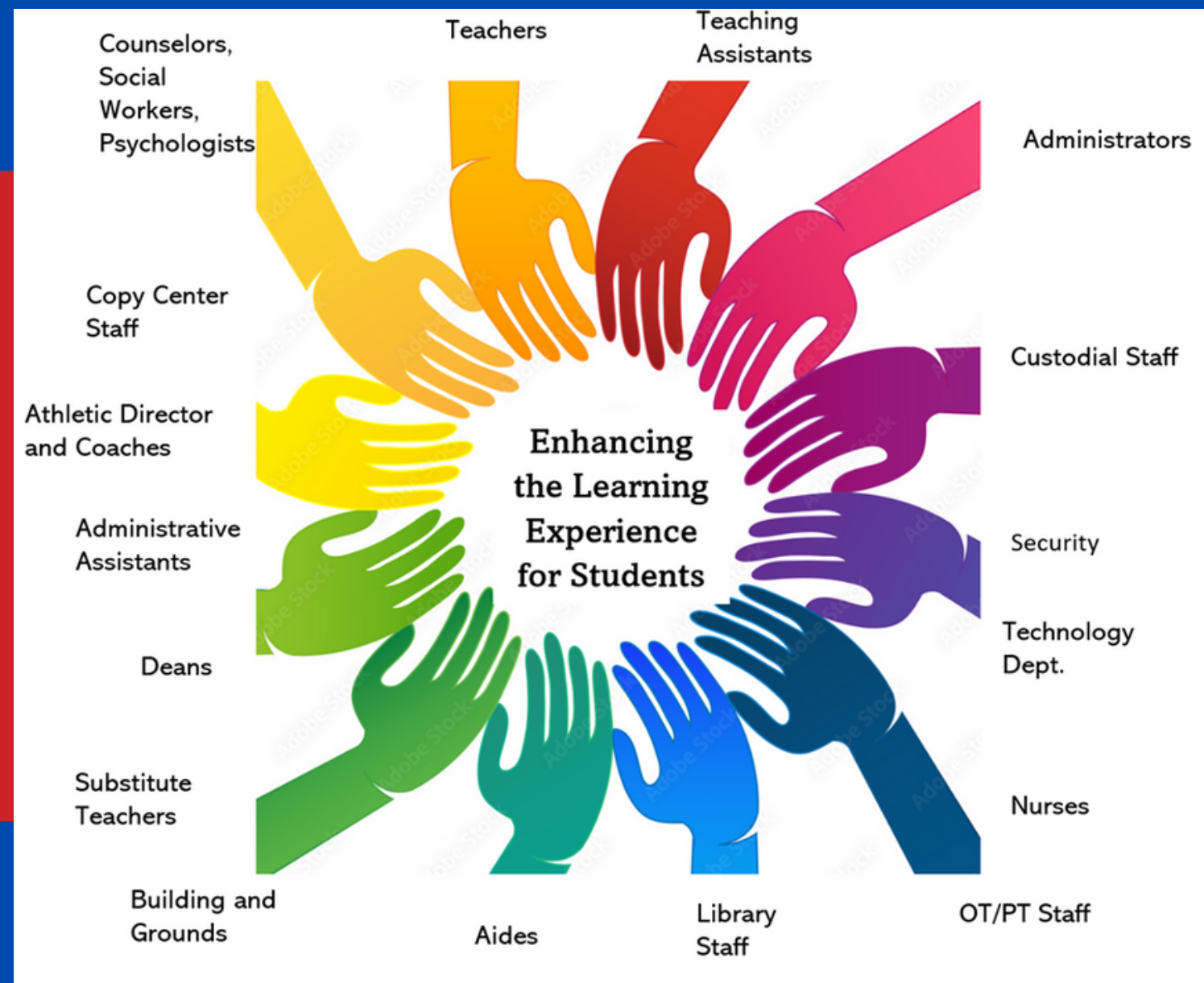
Results Analysis 2021-2022



"Be better than you were yesterday, and be better tomorrow than you were today."



The mission of the Rockville Centre School District is to educate our students to become independent problem solvers. It is our goal to empower each student to meet the challenges of tomorrow's emerging world. The District will provide a safe, nurturing environment in which individual and civic responsibility is fostered, diversity is respected and all students are enabled to realize their full potential.



REGENTS EXAMS FOR DIPLOMA TYPES

Regents Diploma

- One mathematics
- One science
- English
- One social studies
- One “pathway”

The pathway options recognize students’ interests in the Arts, Career and Technical Education (CTE), Career Development and Occupational Studies (CDOS), Civics, Humanities, Science, Technology, Engineering and Mathematics (STEM), and World Languages by allowing an approved pathway to satisfy students’ graduation requirements.

Advanced Regents Diploma

- Three mathematics
- Two sciences
- English
- One social studies
- One “pathway”
- In addition, one of the following:

2 additional credits in World Languages (for a total of 3 credits) and the locally developed Checkpoint B World Languages Exam	5-unit sequence in the Arts	5-unit sequence in CTE
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GRADUATION RATES AND DIPLOMA TYPES

'21-'22
SSHS
Regents
Diploma
Rate:
99%

'20-'21: 98%
'19-'20: 98%
'18-'19: 97%

'21-'22
SSHS Regents
with Advanced
Designation
Rate:
90%

'20-'21: 93%
'19-'20: 84%
'18-'19: 89%

'21-'22
Greenhouse:
13 of 14
students
graduated

'20-'21:
11 out of 12
'19-'20:
15 out of 16

Nassau County Regents with Advanced Designation Rates:
'20-'21: 68% **'19-'20: 63%** **'18-'19: 59%**



JUNE 2022 REGENTS EXAM RESULTS

EXAM	% L1	% L2	% L3	% L4	% L5	PASSING RATE	REGIONAL GAP (PASSING)	SSHS MASTERY RATE	REGIONAL GAP (MASTERY)
ELA	0%	1%	7%	10%	82%	99%	+10%	82%	+26%
ALGEBRA 1	20%	10%	65%	5%	0%	70%	-10%	0%	-26%
GEOMETRY	17%	14%	35%	20%	14%	69%	+3%	14%	-8%
ALGEBRA 2	6%	8%	44%	22%	20%	86%	+6%	20%	-6%
LIVING ENV	5%	9%	40%	47%	N/A	87%	+4%	47%	+7%
EARTH SCIENCE	17%	33%	33%	17%	N/A	50%	-26%	17%	-25%
CHEMISTRY	7%	12%	51%	30%	N/A	82%	+9%	30%	+2%
PHYSICS	7%	8%	37%	48%	N/A	85%	+17%	48%	+13%
GLOBAL HISTORY	0%	3%	22%	27%	48%	97%	+7%	48%	+25%

Note: New York State has not administered the United States History Regents Exam since 2019. Our students take Algebra I and Earth Science in Grade 8.



COMPARISON TO REGION OVER TIME

EXAM	PASSING GAP '17-'18	PASSING GAP '18-'19	PASSING GAP '21-'22
ELA	+12%	+8%	+10%
ALGEBRA 1	-39%	-33%	-10%
GEOMETRY	0%	+8%	+3%
ALGEBRA 2	+2%	-3%	+6%
LIVING ENV	+9%	+11%	+4%
EARTH SCIENCE	-25%	-35%	-26%
CHEMISTRY	+1%	-5%	+9%
PHYSICS	+1%	-1%	+17%
GLOBAL HISTORY	+7%	+9%	+7%



REGENTS SUMMARY FOR ELECTIVE EXAMS

South Side HS

Nassau County

Exam	# Taking Exam	# Passing Exam	% Passing Exam	Avg Enroll 10-12	% Avg Enroll Taking Exam	% Avg Enroll Passing Exam	# Taking Exam	# Passing Exam	% Passing Exam	Avg Enroll 10-12	% Avg Enroll Taking Exam	% Avg Enroll Passing Exam
Geometry	205	142	69%	260	79% (94.5%)	55% (65.4%)	13,613	8,972	66%	16,256	84%	55%
Algebra 2	265	229	86%	260	102%	88%	12,175	9,833	81%	16,256	75%	60%
Chemistry	260	212	82%	260	100%	82%	10,982	7,983	73%	16,256	68%	49%
Physics	60	51	85%	260	23%	20%	5,172	3,531	68%	16,256	32%	22%

Note: In our current 10th grade cohort, we have 217 students. 205 students took Geometry last year, for a participation rate of 94.5%. The percentage of eligible students passing the exam was 142 out of 217, or 65.4%.



AP MATH COURSES IN 2021-2022

Course	# students ('18-'19)	% 3,4,5 ('18-'19)	# students ('21-'22)	% 3,4,5 ('21-'22)
AP Calculus AB	132	6.1%	38	26.3%
AP Calculus BC	46	50%	44	70.5%
AP Statistics	31	12.9%	27	48.1%

AP Exams are scored on a 1-5 scale.

Note: Programming changes have impacted the number of students taking AP Calculus AB. In 2020-21, 117 students took the AP Calculus AB course. AP Calculus BC numbers have remained steady (37 in 20-21, 44 in 19-20).



IB DIPLOMA PROGRAM HIGHLIGHTS

- MAY 2022 -

 Numbers of students involved in the IB Diploma Program

436

 Number of IB Diplomas earned

96
of 109

...a success rate of

88%

 Percentage of the graduating class who earned the IB diploma

36%

 Percentage of '20-'21 graduating class who earned the IB diploma

37%



















IB DIPLOMA REQUIREMENTS

- **Take 3 Higher Level and 3 Standard Level courses from each of 6 core curriculum groups**
- **Accumulate 24 points; each course is graded on a scale of 1 to 7**

Group 1	Studies in Language and Literature
Group 2	Language Acquisition
Group 3	Individuals and Societies
Group 4	Sciences
Group 5	Mathematics
Group 6	The Arts

















IB HIGHER LEVEL SUBJECTS

SUBJECT	MAY 2019 SSHS AVG	MAY 2022 SSHS AVG	MAY 2019 GLOBAL AVG	MAY 2022 GLOBAL AVG	SSHS % GROWTH OVER GLOBAL GROWTH
ENGLISH	4.48	 4.62	4.97	 5.03	+1.92%
SPANISH	4.5	 5.0	5.32	 5.55	+6.79%
HISTORY	3.58	 4.19	4.11	 4.53	+6.82%
BUSINESS	4.42	 4.47	4.8	 5.25	-8.24%
BIOLOGY	3.7	 4.63	4.34	 4.73	+16.15%
PHYSICS	2.9	 4.29	4.65	 5.09	+38.47%
CHEMISTRY	3.81	 4.27	4.51	 4.99	+1.43%
FILM	3.47	 4.27	4.4	 4.55	+19.65%
MUSIC	4.47	 5.1	4.71	 5.04	+7.09%
THEATRE	4.64	 5.71	4.88	 4.97	+21.22%
VISUAL ARTS	3.7	 4.14	4.27	 4.45	+7.68%



IB STANDARD LEVEL SUBJECTS

SUBJECT	MAY 2019 SSHS AVG	MAY 2022 SSHS AVG	MAY 2019 GLOBAL AVG	MAY 2022 GLOBAL AVG	SSHs % GROWTH OVER GLOBAL
SPANISH**	4.44	4.38	5.03	 5.04	-1.55%
FRENCH**	4.31	 4.55	5.03	 5.12	+3.78%
PSYCHOLOGY	3.48	 4.39	4.38	 4.79	+16.79%
PHYSICS	3.61	 4.50	4.03	 4.64	+9.52%
ENVIRONMENTAL SYSTEMS	3.06	 3.78	4.15	 4.47	+15.82%
MATH ANALYSIS**	4.16	 5.14	4.18	 4.99	+4.18%
MATH APPLICATIONS**	4.37	4.17	4.16	 4.39	-10.11%
MUSIC**	4.50	 5.25	4.57	 4.71	+13.60%

** indicates that the course has been revised since 2019 so a straightforward comparison is limited.



SUBJECTS WITH EXEMPLARY RESULTS

SUBJECT	SCORE OF 4 OR BETTER
Music	100%
Theatre	100%
Spanish HL	100%
Math Analysis	99%
English: Lang & Lit	90%
French SL	90%
Physics SL	89%



ACTION



**Creation of IB Diploma
Research Course**

**Five-Year Self Assessment of
the IB Program at SSHS**

**Systematic Plan for
Students Failing Courses**

**October 6th Faculty-wide
Prof. Development on Results Analysis**

**Quarter 1 Common Assessments followed by
internal data analysis to inform instruction**

Expansion of Support Systems

- 1) Homework Helpers extended to 4 pm.**
- 2) Partnership with MLK Center for afterschool academic support**
- 3) Strengthening the Special Education Model of Co-Teaching**

STEPS



REPORTS USED TO INFORM INSTRUCTION



Standard/Key Idea	Subskill/Performance Indicator	Question #	MC/CR	School %	District %	Region %	School Gap	District Gap
Geometric Measurement & Dimension	G.GMD.4---Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects. -- HSG.GMD.B.4	I-02	MC	77.6%	77.6%	59.6%	18.0%	18.0%
Expressing Geometric Properties with Equations	G.GPE.6---Find the point on a directed line segment between two given points that partitions the segment in a given ratio. -- HSG.GPE.B.6	I-22	MC	79.0%	79.0%	65.6%	13.4%	13.4%
Geometric Measurement & Dimension	G.GMD.4---Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects. -- HSG.GMD.B.4	I-08	MC	75.1%	75.1%	63.4%	11.7%	11.7%

Why do our students perform well on these standards?

How are these topics represented in our curriculum?

Similarity, Right Triangles, & Trigonometry	G.SRT.6---Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles. -- HSG.SRT.C.6	I-03	MC	50.2%	50.2%	64.6%	-14.4%	-14.4%
Congruence	G.CO.12---Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a	II-31	CR	20.5%	20.5%	35.5%	-15.0%	-15.0%

Why might our students struggle with these standards?

Did any teachers in the department have positive gaps?

How did they teach the topic?

MORE THAN JUST "RIGHT OR WRONG"

Q#	Skill Tested	Region %	Correct Resp	Blank		Resp 1		Resp 2		Resp 3		Resp 4	
				#	%	#	%	#	%	#	%	#	%
I-15	Interpreting Functions: F.IF.7e---Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude. -- HSF.IF.C.7.E	55.6%	4	1	0%	44	17%	36	14%	39	15%	145	55%
I-11	Linear, Quadratic, & Exponential Models: F.LE.5---Interpret the parameters in a linear or exponential function in terms of a context. -- HSF.LE.B.5	55.4%	2			18	7%	148	56%	89	34%	10	4%

The Wrong Answer Summary gives us insight into student misconceptions!



CO-SEATED MODEL

Introduced in 2019-2020 school year for 11th and 12th grade English and 11th grade History

Students register for either IB or Regents, but are seated in the same class.

The Co-Seated Classroom



NYS Standards and IB Learning Outcomes align extremely well

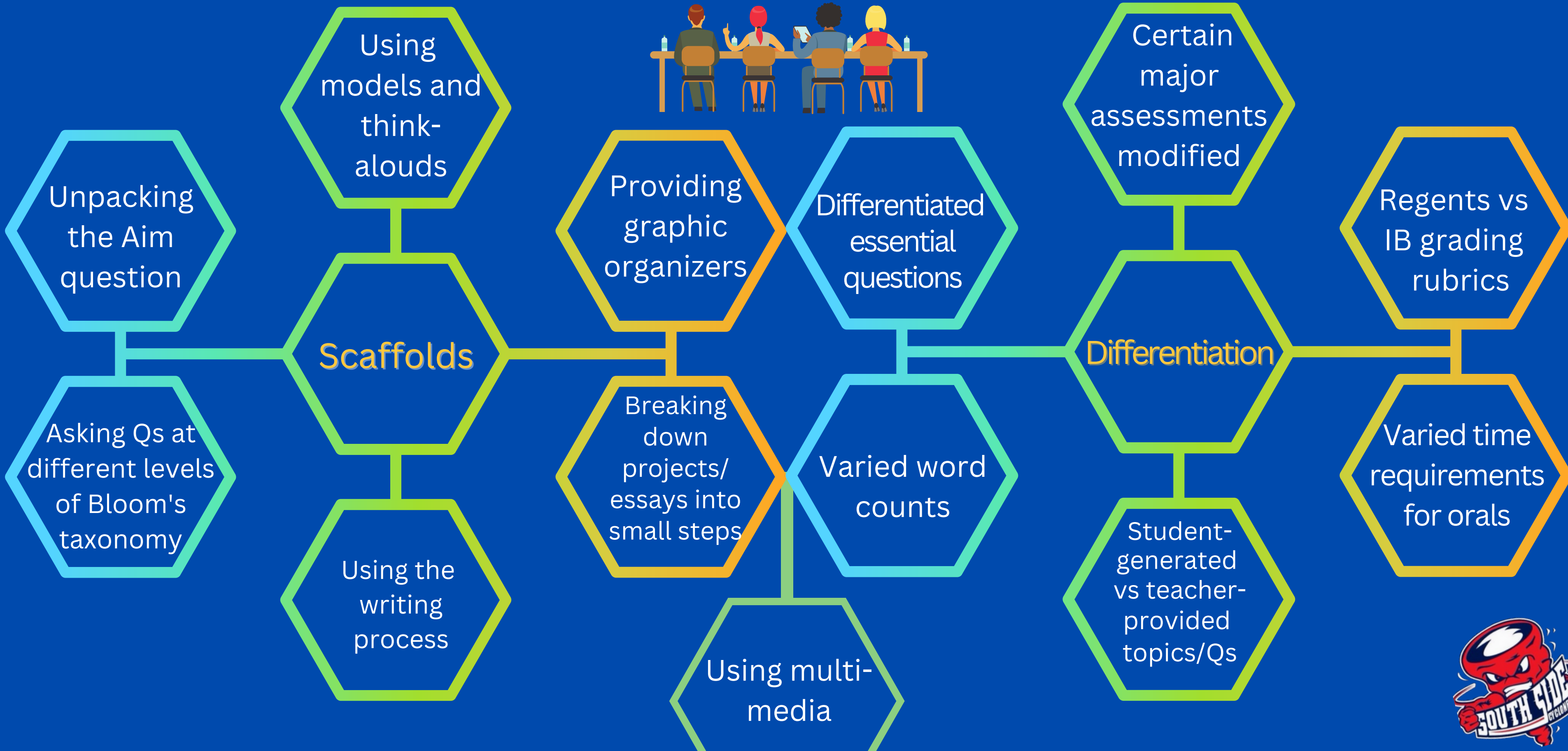
High expectations set for all students, with modifications and scaffolds creating the foundation for success

Maintain heterogeneity while providing options for students



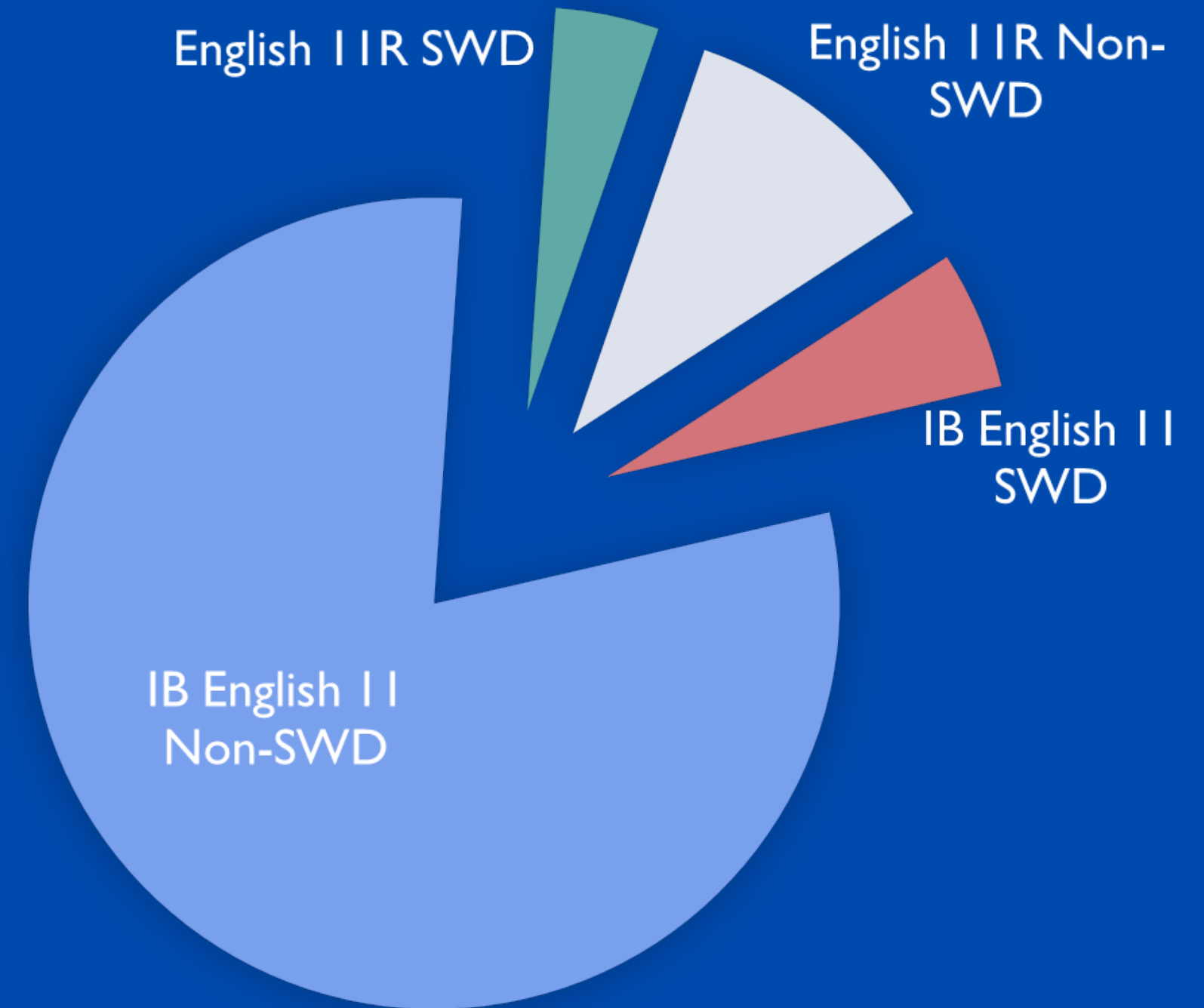
CO-SEATED MODEL:

Introduced in the 2019-20 school year for 11th and 12th grade English and 11th grade History



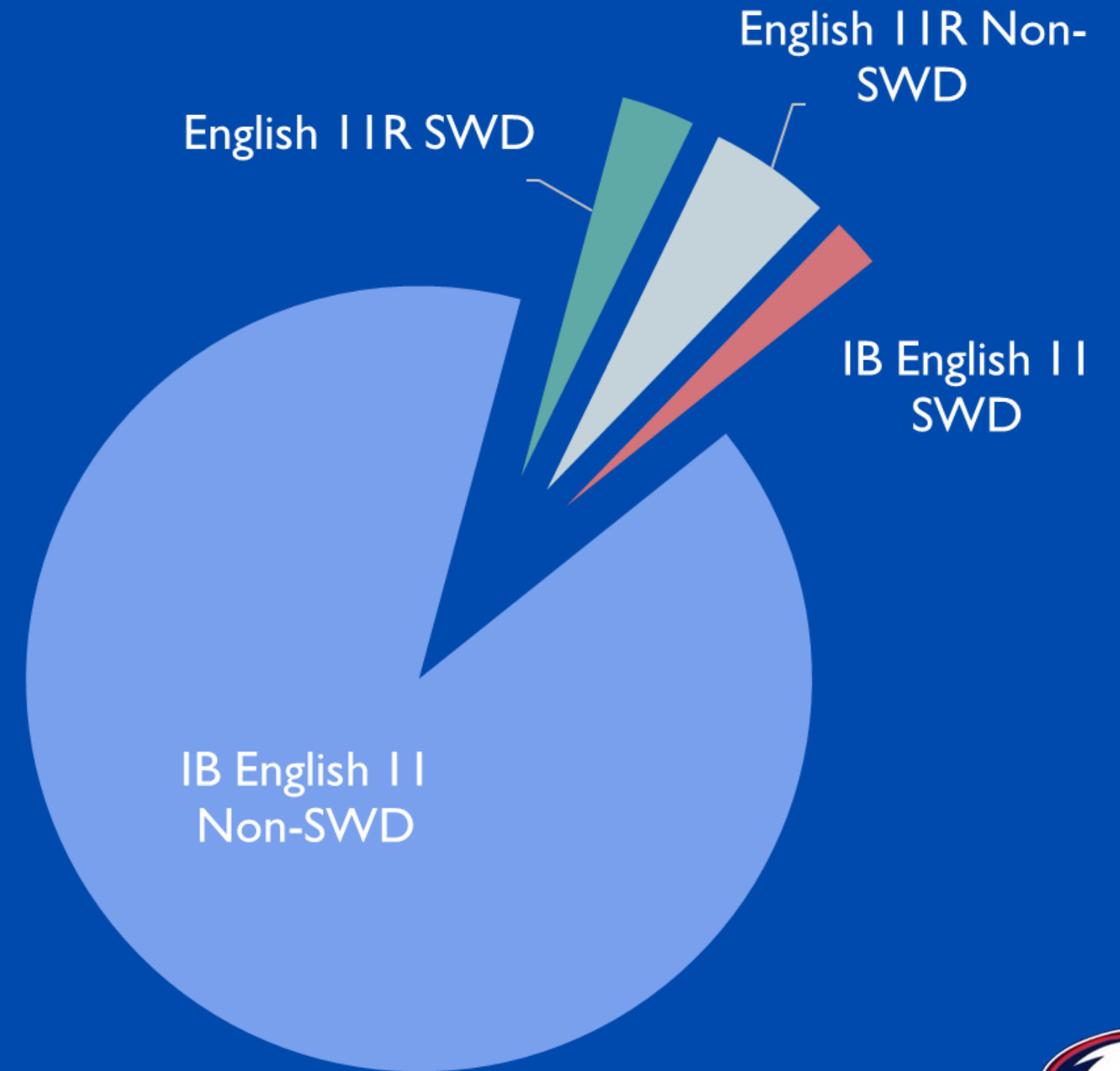
11TH GRADE ENGLISH ENROLLMENT 2021-22

Course / Group	# of Students	% Students Overall	% SWD
English I IR SWD	9	4%	43%
English I IR Non-SWD	23	11%	
IB Eng II SWD	12	6%	57%
IB Eng II Non-SWD	173	80%	



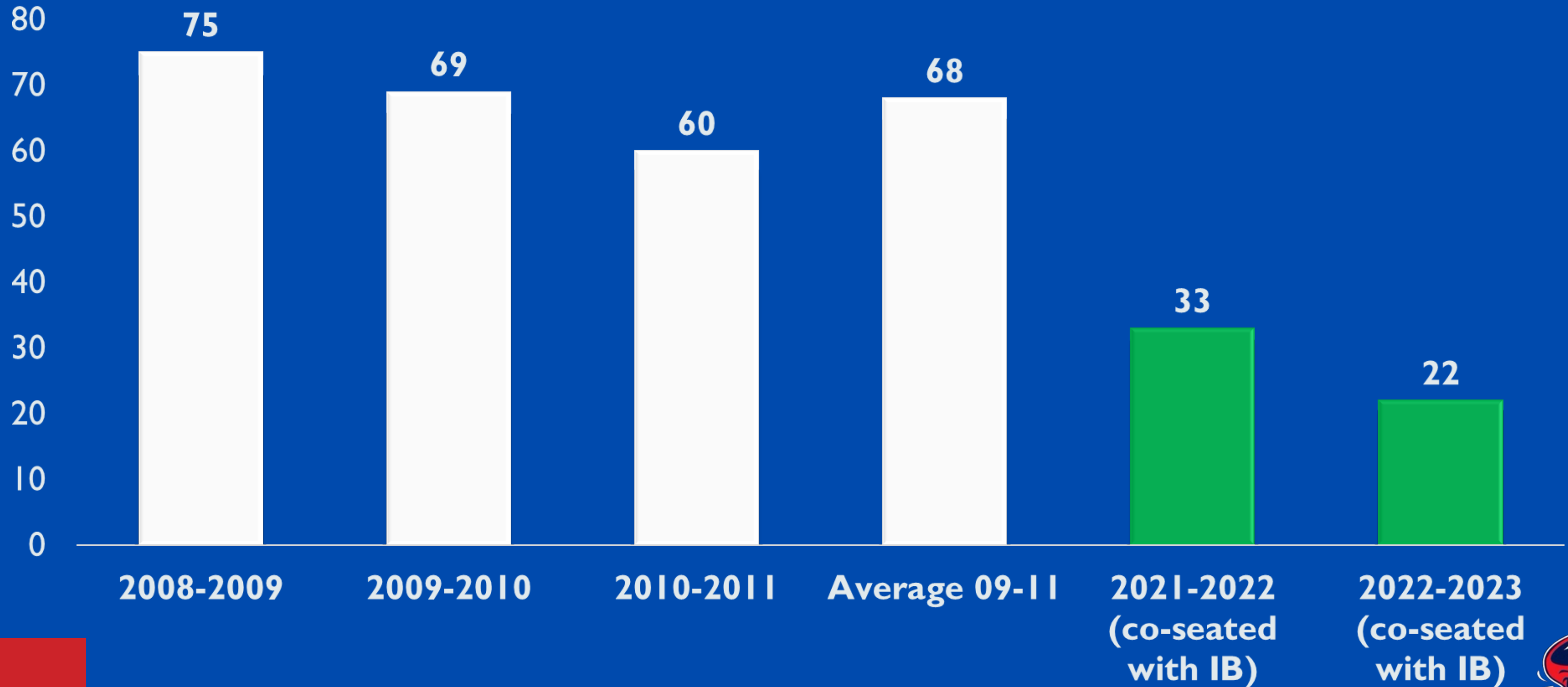
11TH GRADE ENGLISH ENROLLMENT 2022-23

Course / Group	# of Students	% Students Overall	% SWD
English I I R SWD	8	3%	57%
English I I R Non-SWD	14	5%	
IB Eng II SWD	6	2%	43%
IB Eng II Non-SWD	237	89%	



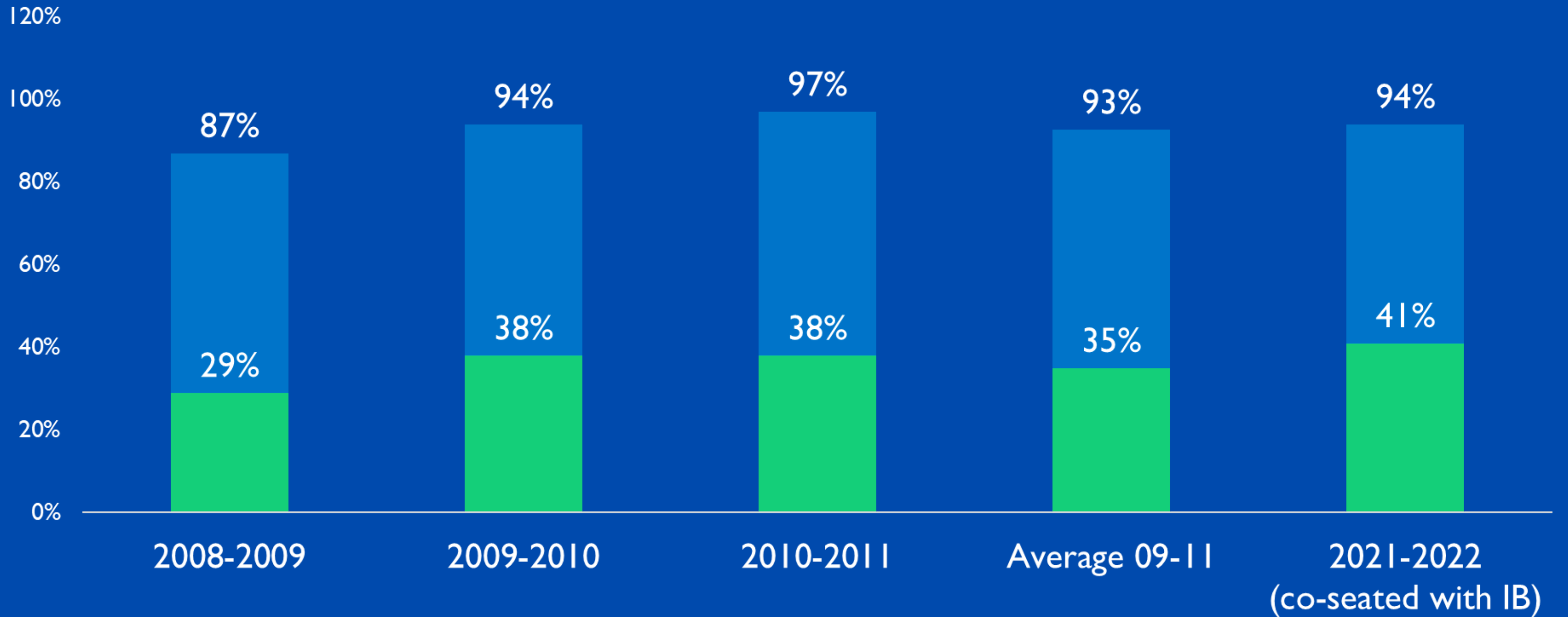
ENGLISH 11R - A HISTORICAL VIEW

OF STUDENTS



ENGLISH 11R

REGENTS EXAM RATES



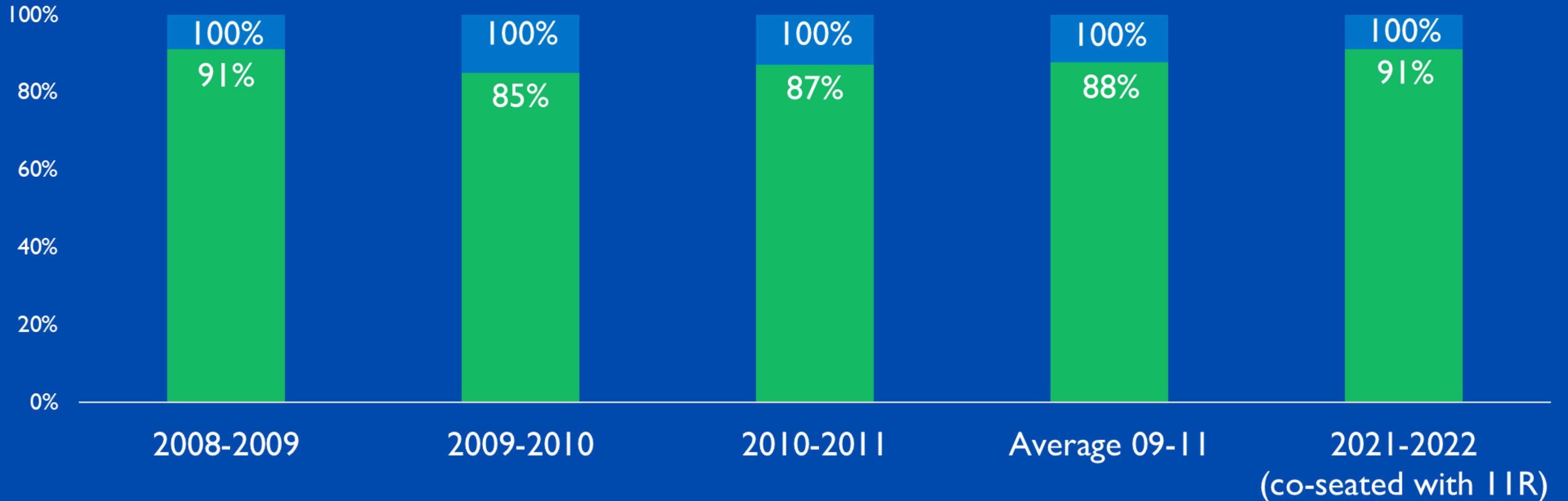
■ Reg. Mastery Rate

■ Reg. Passing Rate



IB ENGLISH 11

REGENTS EXAM RATES



■ Reg. Passing Rate

■ Reg. Mastery Rate



English 11R

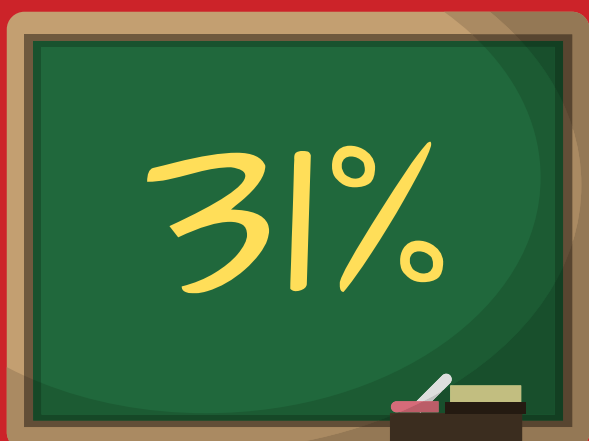
2008-09



2009-10

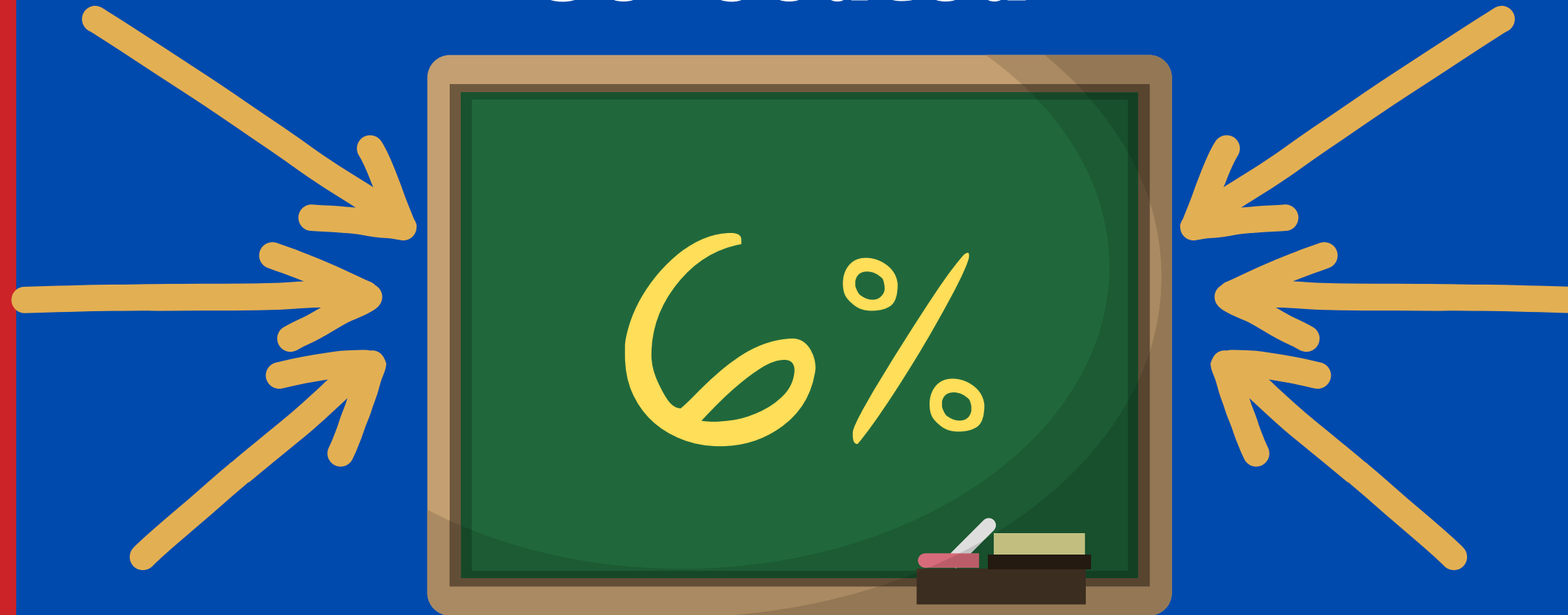


2010-11



IN THE CLASSROOM Students with Disabilities

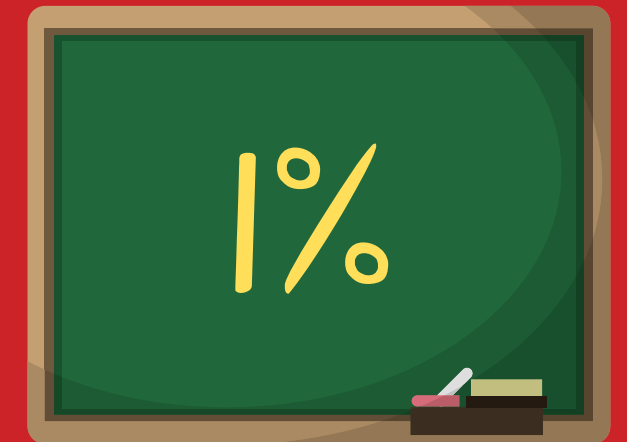
2021-22
Co-Seated



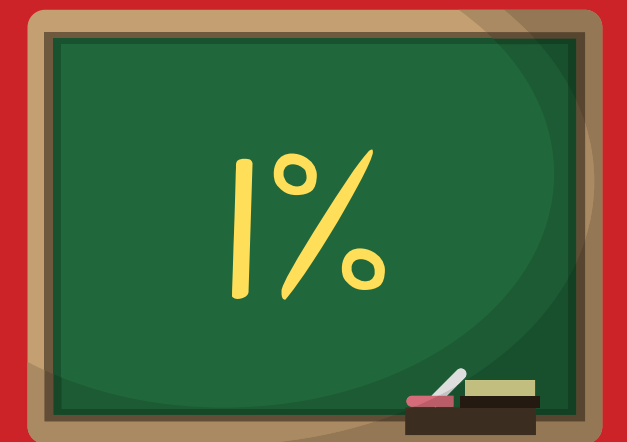
as a % of students in the
classroom

IB English 11

2008-09



2009-10



2010-11



English 11R

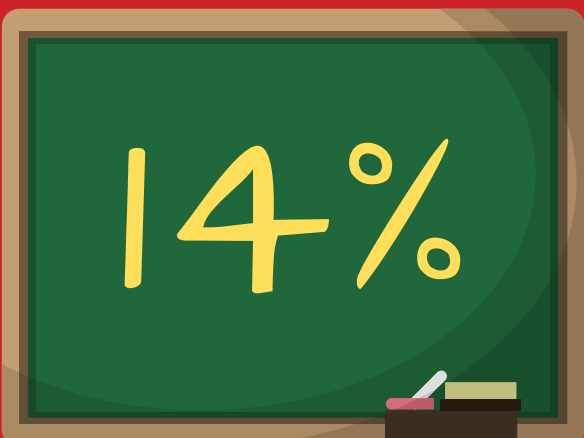
2008-09



2009-10

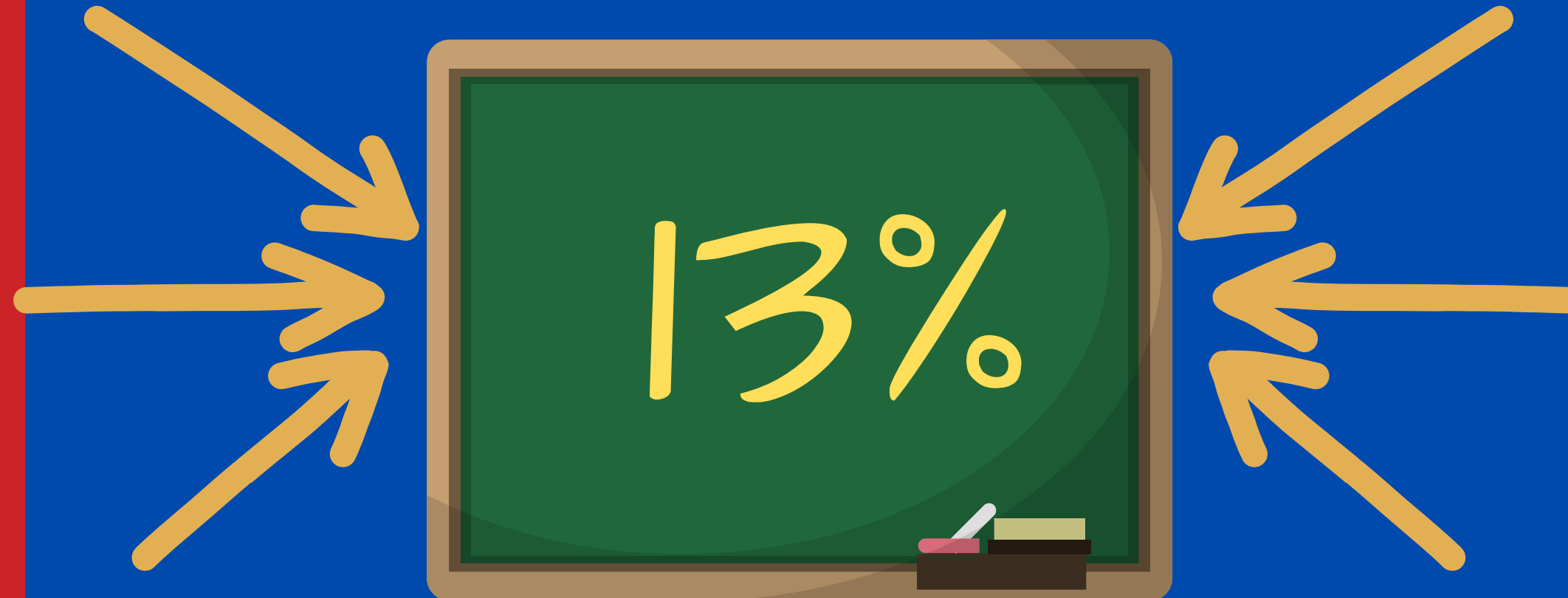


2010-11



IN THE CLASSROOM Economically Disadvantaged

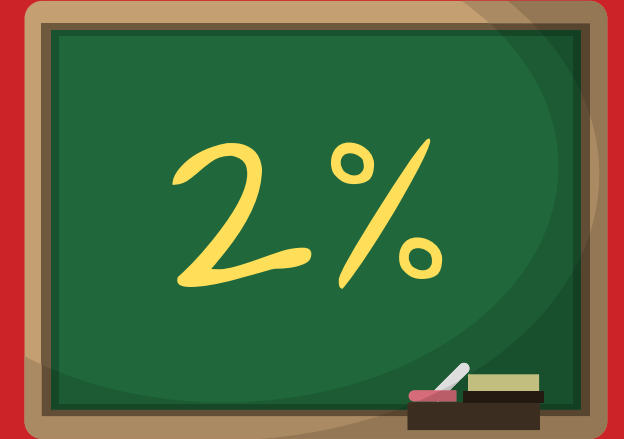
2021-22
Co-Seated



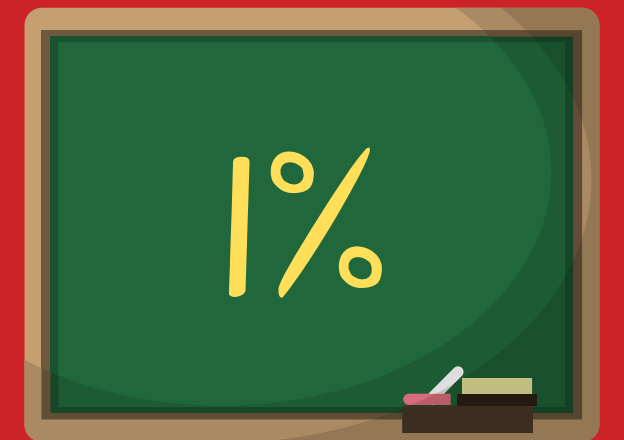
as a % of students in the
classroom

IB English 11

2008-09



2009-10

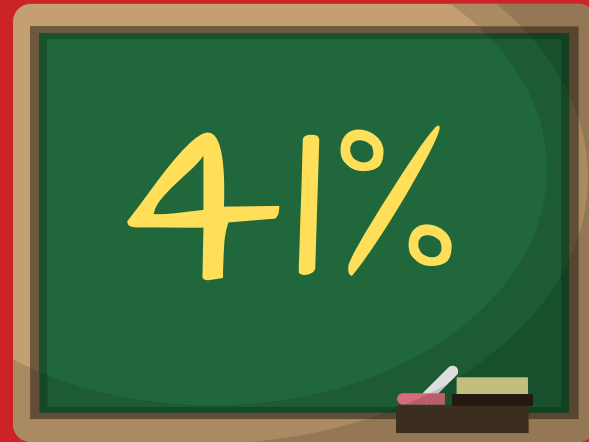


2010-11

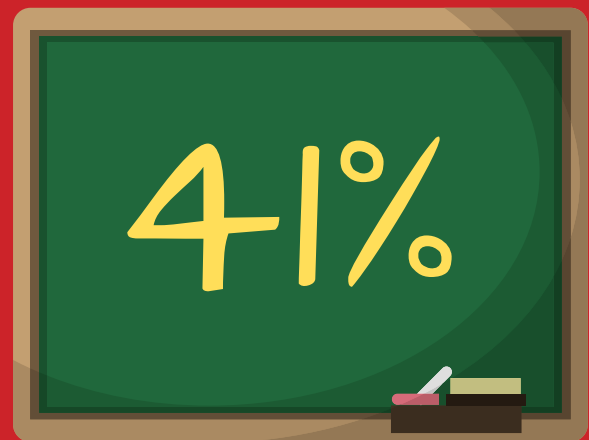


English 11R

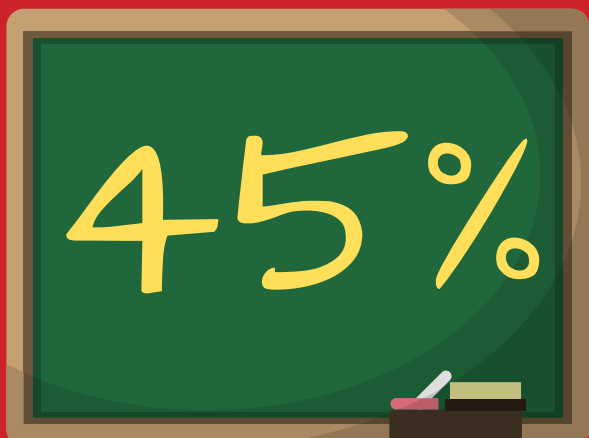
08-09



09-10

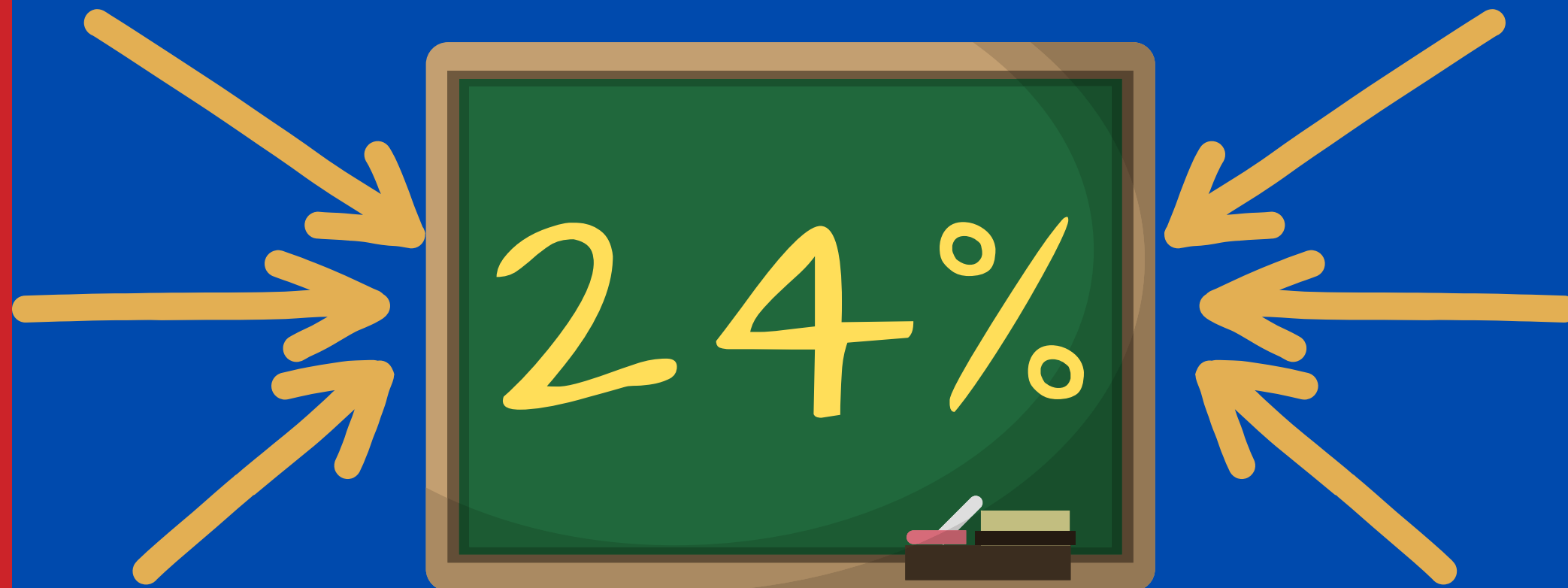


10-11



IN THE CLASSROOM Racial Minority

2021-22
Co-Seated



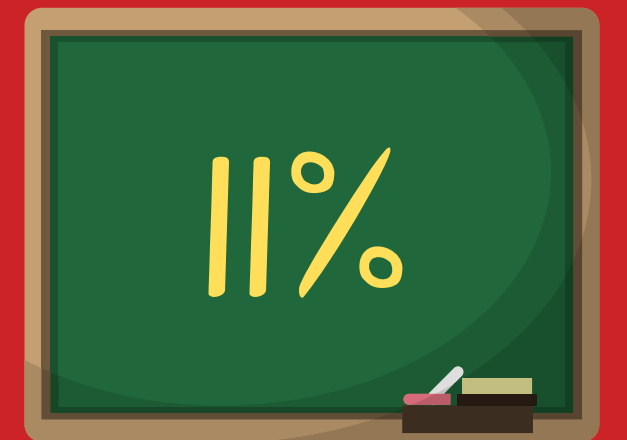
as a % of students in the
classroom

IB English 11

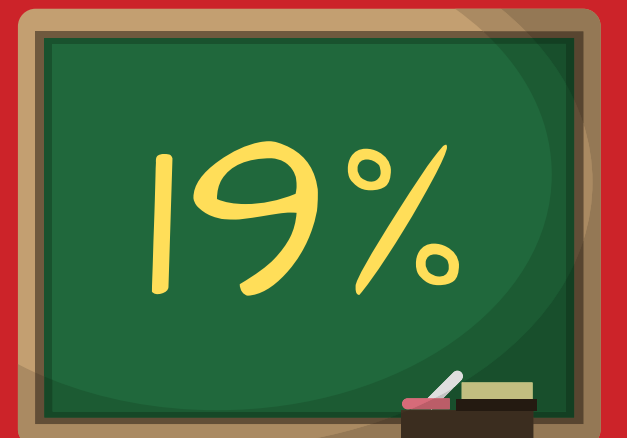
08-09



09-10



10-11



Every child deserves a
champion
-- an adult who will
never give up
on them,
who understands the
power of
connection
and insists that they
become
the best that they can
possibly
be.

-- Rita F. Pierson



Student Experience at SSHS