



NUTURING SCHOLAR-SPORTSMEN SINCE 1883

HSC Results 2022

Presentation to P & C

By Dr K. A. Jaggar, March 13 2023

The League Tables in the Media

- HSC rankings published in newspapers follow a basic formula:
$$= (\text{Band 6/E4s earned} \div \text{Number of papers sat by students}) \times 100$$
- To get in Top 10 in the state, a school would need approx. 50% of Band 6s.
- No acknowledgement of cohort size OR difficulty of courses attempted. Our target is 600 Band 6s. This year we only achieved 539. Rank 11.
- We have very large number of boys in harder courses. Hence, it is difficult to get to 50% Band 6s.
 - Mathematics Extension 1 (162 boys)
 - Extension 2 (118 boys)
 - English Advanced (193 boys)
 - Physics (118 boys), Chemistry (123 boys)
- Since 2019 – reduced ability to plagiarise and memorise others' responses
- We are working hard on our weaknesses as identified by our RAP analyses and internal data (quantitative and qualitative). Programs are being amended.



SBHS ATAR History

- 2022 average ATAR = 90.93: SD of 10.58 . 99+ =31 (LTA =38); 95-99 =72 (LTA =73); 90+ =148 (LTA=153)
- % boys: 99 up 14.76; 95 up 34.29; 90-94 - 21.43; ≥ 90 (71.50) Since 2001 these averages are 18.99%; 36.44%; 20.51% and 76.27%.
- Since 2001, SBHS Average ATAR has been 91.76 with SD of 9.06
- Our segmented ATAR History - Mean & Standard Deviation & ≥ 90

Years	ATAR Mean	Standard Deviation	$\geq 90\%$
2001 – 2005	91.29	9.77	72.28
2006 – 2010	92.89	8.00	75.64
2011 – 2015	93.68	7.33	80.16
2016 – 2020	92.79	9.70	77.41
2021-2022	91.76	9.06	74.95



HSC Results for Class of 2022

■ ATAR Predictor Results

- Year 7 enrolments 92.21
- Later Years Enrolments 84.73*
- Overall Result 90.93

■ Individual Results

- 2 students achieved ATAR 99.95 (max)
- 148 students (71.50%) achieved ATAR \geq 90
- Tail 26 students (12.38%) achieved ATAR $<$ 80

- [highest tail percentage since 2005; 2021 was 7.51; 2020 was 9.39]
- * Lowest ever average ATAR since Year 9 class created in 2006

- Of the lowest 25 ATARs, 15 students were enrolled in Year 7 in 2017 (60%)

ATAR	Qty of Students
≥ 99	31
95 – 98.95	74
90 – 94.95	45
85 – 89	19
80 – 84	17
75 – 79	9
70 – 74	5
<70	12



SBHS High Achievers in Courses - Top 10 State Ranking

Mathematics Advanced – Venkatesan Darshan (8)

Mathematics Extension 1 – Stan Tse (3), Eric Qin (7)

Ancient History – Yu Ming Lee (10)

Chemistry – Hugo Leung (10)

Music 1 – Allen Fang (5)

State Ranks 11-20:

Chemistry - Aggarwal Saarthak (11); Addison Chen (14); Hao Wu (19)

English Advanced – Hao Wu (14)

Biology – Ruiyu Zhang (20)

Well done & congratulations boys!



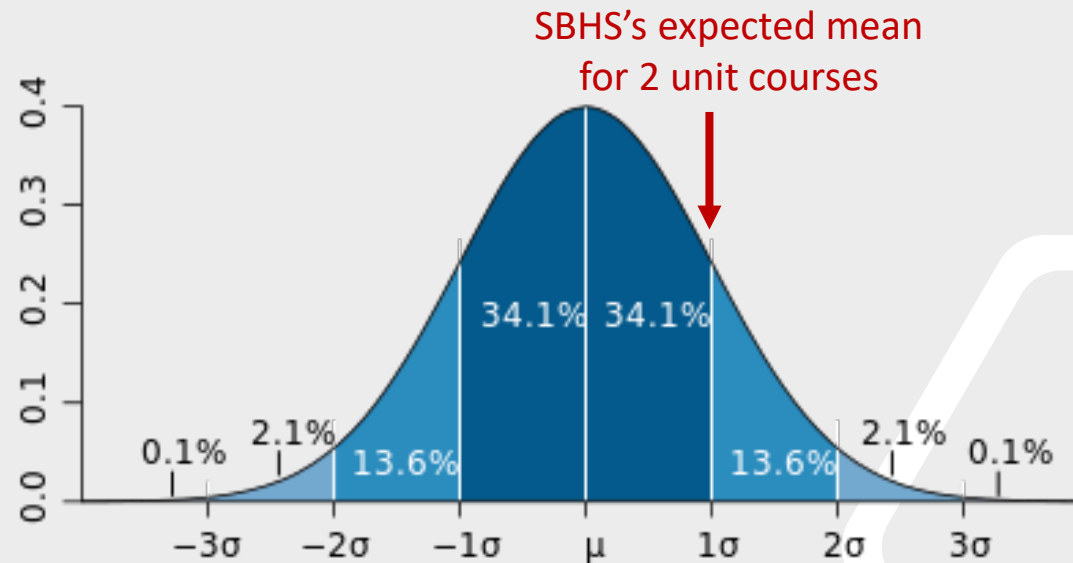
Bands 5 & 6 Comparative Results (2022 v 2021)

- Courses Up 5
 - Courses Down 15
 - Courses the Same 8
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- HSC 2022 vs Long Term Average (2015-2022 5&6)
 - Courses Up 8
 - Courses Down 15
 - Courses the Same 5



Explanation of Statistics Terms Used

- **Standard Deviation** (σ) shows how much variation of scores or dispersion from the average (mean) exists in a population. Each band has a width of one standard deviation.
- **Mean** (μ) is the sum of all the numbers in the set (candidates' scores in an HSC course), divided by the numbers in the set (number of candidates).



Explanation of Statistics Terms Used (Cont'd)

- **School standard** - As 84% of scores fall below one standard deviation above the mean, we expect our school's mean in two-unit courses only, to be at the level of at least one standard deviation above the mean.
- **Due to the scaling effects**, as demonstrated later in the presentation, a target HSC mark for a two-unit course is 87, because any lower and the scaled score per unit x by 10 units would not amount to 371 or 90 ATAR.



Explanation of Statistics Terms Used (Cont'd)

- **Z score** for an HSC course is the school mean minus the state mean divided by the state standard deviation.
 - Assume a normal curve distribution.
 - Let's say the state HSC mean for a course is 74 and its standard deviation is 12.
 - Suppose at SBHS, the course mean is 86.
 - The calculated z-score is $(86-74)/12=1$.
- There are 15.8% of candidates left after the first standard deviation above the mean.
 - As it happens, ~17.9% of students who apply are awarded an ATAR of 90 or more
 - So, 90 ATAR is the minimum standard expected at High
- NOTE: The distribution of marks for ATAR purposes is curvilinear.



Z-Score Comparison of 2-Unit Courses

Highly Successful (Z-Score ≥ 1.0)

Course	No. Students in SBHS	School Mean	Z Score
Engineering Studies	13	89.88	1.43
Software Design	7	92.57	1.34
Ancient History	3	91.33	1.34
Music 1	8	93.3	1.15
Music 2	7	93.17	1.06
Biology	51	83.1	1.01
Business Studies	33	85.84	1.01
Visual Arts	3	90.07	1.01

- Our expectations are that in 2-unit courses, our course mean should be as close to one standard deviation above the State mean as possible. N=8 for 2022 (n=7 2021; n=9, 2020)



Z-Score Comparison of 2-unit Courses (Cont'd)

Successful (Z-Score = 0.75 – 0.99)

Course	No. Students in SBHS	School Mean	Z-Score
Geography	15	86.80	0.95
Chemistry	123	85.19	0.94
Mathematics Advanced	125	89.63	0.92
Modern History	35	84.91	0.89
Legal Studies	26	85.96	0.84
Physics	118	85.63	0.80

- Successful courses 2022 n= 6 (n=9 2021, n=7, 2020)

Comparison of Means of Extension Courses Highly Successful (Z-Score ≥ 0.5)

Course	No. Students in SBHS	School Mean	Z Score
Mathematics Extension 1	162	85.96	0.51

- Given the high scores and means of Extension courses in the State, if our mean is half a standard deviation above the state mean, that is a highly successful result.

Means and z scores for successful Extension 2 courses (Z-scores $> 0.25 < 0.5$)

Course	No. Students in SBHS	School Mean	Z Score
Mathematics Extension 2	118	87.27	0.39

How did Y2022 Compare to Past HSC Results at High?

- The following tables describe the course name and below them a statement comparing Y2022 result to that of previous years in that course at High going back as far as 2001 when the new HSC began
- The Z-Score for the course is followed by two scores at the 90th percentile
- Then similar pairs of scores for the 75th percentile and 50th percentile
- The first score in the pair is the HSC mark at that percentile, followed by the ATAR scaled mark at that percentile
- The standard at High for a 2-unit mark, scaled for ATAR is 74.2
- Scores highlighted in red fall below 74.2 equivalent at that percentile



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Ancient History	1.34	89	75.6	83	63	74	45.6	1/3

- Highest school mean since 2001 + highest school mean ATAR value and z-score

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Biology	1.01	87	78.4	80	64.2	71	53	13/51

- Highest ever candidate numbers in the State + school; highest school mean ATAR value since 2016

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Business Studies	1.01	90	77.4	83	64.6	74	46	18/33

- Largest ever state candidature; highest score required at the 90th percentile + highest ATAR value



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Chemistry	0.94	89	87	82	79	74	67	48/123

- Lowest school mean since 2005 + lowest school mean ATAR value since 2013 + lowest z – score since 2010

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Design and Technology	N/A	92	75	87	61.6	79.6	45.2	

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Drama	N/A	93	78	87	63.8	79	47.7	



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Economics	0.52	91	86	86	78.2	79	65.6	14/62

- Lowest school mean since 2019; highest z-score since 2018; lowest school mean ATAR value since 2018

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Engineering Studies	1.43	89	77.6	82	67.2	74	53	10/13

- Highest school mean since 2014; highest ever school mean ATAR value and z-score

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
English Advanced	0.56	91	84.4	87	77	83	66.2	44/193

- Lowest school candidature since 2010, highest school mean since 2017; school mean ATAR value (2016)



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
English Extension 1	0.08	94	88	92	82	86	74	7/20

- Higher school mean and mean ATAR value than in 2021 but with half the numbers in the course.

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
English Extension 2	-0.22	94	89.2	90	82.4	82	73	0/2

- Lowest state candidature since the new HSC began; school mean +z-score better than 2021

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Geography	0.95	90	78.8	85	68.2	77	52	5/15

- Lowest school mean since 2014; lowest z-score + mean ATAR value since 2019



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Legal Studies	0.84	91	79	85	67.4	76	50.8	12/26

- Lowest school mean since 2019; and lowest school mean ATAR value and z-score since 2019

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Mathematics Advanced	0.92	94	87.4	89	78.2	79	65	93/152

- Highest school mean and z-score since 2020; highest school mean ATAR value since 2015

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Mathematics Extension 1	0.51	94	95	92	91.2	82	84.2	100/162

- Highest HSC scaled ATAR value since 2019; lowest school mean ATAR value since 2014.



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Mathematics Extension 2	0.39	95	97	93	94.8	86	91.2	69/118

- Lowest school mean since 2013; lowest school mean ATAR value since 2014; lowest z-score since 2010

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Modern History	0.89	89	79	83	67.4	75	52.4	14/35

- Lowest state candidature since 2011; lowest school mean +mean ATAR value since 2005.

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
History Extension	0.38	94	85.6	90	77.6	82	68	2/5

- Lowest state candidature since 2001; lowest school mean since 2019; second best z-score since 2017



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Music 1	1.15	93	72	89	58.8	84	42	7/8

- Lowest state candidature since 2004; highest ever state mean; highest school mean since 2020

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Music 2	1.06	95	88.2	91	80.4	87	70.6	6/7

- Lowest state candidature since 2006; highest school mean ATAR value and z-score since 2013

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Music Extension	0.87	100	100	98	88.1	94	74.2	3/3

- Lowest state candidature since 2002; highest ever HSC mean ATAR value; lowest z-score since 2015.



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
PDHPE	0.60	87	74.6	80	62	70	44.6	1/12

- Lowest state mean since 2001; lowest school mean ATAR value and z-score since the new HSC began.

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Physics	0.80	91	86.8	85	78.6	76	65	47/118

- Highest state mean ATAR value since 2001; Lowest school mean ATAR value since 2018 and z-score since 2010

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Software Design	1.34	92	82.8	84	70.8	76	55	7/7

- Highest ever state & school mean; highest HSC & school mean ATAR value since new HSC began.



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Studies of Religion 1-unit	0.70	90	79	84	68.2	78	55.2	1/7

- Highest state mean since 2019; school mean, mean ATAR value and z-score above long-term average

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Studies of Religion 2-unit	0.41	90	80.4	85	70.6	79	56	3/15

- Highest state mean since 2009; school mean, mean ATAR value and z-score were below long-term averages

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Visual Arts	1.01	91	75.4	88	61.4	83	42.6	1/3

- Highest state mean since 2001; best school mean ATAR value and z-score since 2018



How did Y2022 Compare to Past HSC Results at High?

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Chinese in Context	0.56	95	83.4	94	77.7	91	64	3/3

- Highest state candidature since 2012; highest ever school mean; z-score above medium-term average

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Latin Continuers	0.51	95	94.8	91	88.8	87	83.2	3/5

- Highest school mean, mean ATAR value and z-score since 2012

Course	Z-Score	HSC 90 th Percentile	ATAR Scaled 90 th Percentile	HSC 75 th Percentile	ATAR Scaled 75 th Percentile	HSC 50 th Percentile	ATAR Scaled 50 th Percentile	B 6/N
Latin Extension	0.36	98	95.8	98	92.8	94	87.8	4/4

- Lowest state candidature since 2004; highest school mean, mean ATAR value and z-score since 2012



Comparing to Statistically Similar Groups

- How well did we perform compared to our statistically similar group?
That is, a comparison group of selective school students, moderated for socio-economic differences)
- How well did we perform against the state mean for the course?
- The following tables comprise:
 - Name of the course
 - HSC mean for High in the course - **state school students only.**
 - Mean for the statistically similar school group
 - Mean in the course for the state – all students
 - Difference between High means and the SSG means

NOTE:

- Scores in black (n=22) were above the SSSG mean.
- Scores highlighted in red (n=10) were below the SSSG mean



Course	SBHS 2022	SSSG Average 2022	State Mean 2022	SBHS v SSG Difference
Ancient History	91.7	83.8	71.98	+6.8
Biology	83.4	83.5	70.03	-0.1
Business Studies	86.1	84.8	73.95	+1.3
Chemistry	85.6	82.6	72.51	+3
Economics	83.6	84.1	77.26	-0.5
Engineering Studies	90.02	86.8	72.64	+3.4
English (Advanced)	86.4	86.0	81.53	+0.4
English Extension 1	85.0	87.3	84.14	-1.9
English Extension 2	78.0	83.1	79.78	-5.1
English Standard	75.9	75.1	69.88	0.8

Course	SBHS 2022	SSSG Average 2022	State Mean 2022	SBHS v SSSG Difference
Geography	87.1	89.0	75.19	-1.9
Legal Studies	86.2	87.4	73.78	-1.2
Mathematics	89.90	85.60	78.31	+4.3
Mathematics Extension 1	86.1	84.4	77.45	+1.7
Mathematics Extension 2	87.7	87.0	81.43	+0.7
Modern History	85.2	85.1	73.67	+0.1
PDHPE	82.7	77.3	69.75	+5.4
Physics	86.1	85.2	74.25	+0.9
Studies of Religion 1	83.1	83.3	75.82	-0.2
Studies of Religion II	82.1	83.4	75.86	-1.3

Course	SBHS 2022	SSSG Average 2022	State Mean 2022	SBHS v SSSG Difference
Software Design	93.0	85.3	74.45	+7.7
Visual Arts	90	89.4	81.36	+0.6
History Extension	85.2	85.3	78.94	-0.1
Chinese in Context	94	89.8	87.5	+4.2
Classical Greek	90	87.02	87.02	+2.98
Latin Continuers	89.6	86.6	84.31	+3
Latin Extension	94.5	92.3	91.18	+2.2
Music 1	93.4	88.5	81.88	+4.9
Music 2	93.3	87.6	86.4	+5.7
Music extension	96	93.5	91.5	+2.5

Comparing Ourselves to the State Over Time

- **1st column:** course and its number of candidates in the state: current – highest – lowest and mean since 2001
- **2nd column:** history of the state mean in the course: current – highest – lowest and mean since 2001
- **3rd column:** the State mean ATAR unit value is recorded, where 25 is average for a 2-unit course
- **4th column:** the school ATAR unit value for the average student in the course –
NOTE: the school standard is 37.1
- **5th column:** the school z-score: current – high – low – average
- NOTE:
 - Where high or low values occur, they are coloured.
 - Where school mean scaled unit values are below 37.1, they are coloured.



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	STATE ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	ATAR Z-SCORE
Ancient History					
2022	6,336	36.2	23	37.88	1.35
High	12,144	37.5	25.1	37.88	1.35
Low	6,336	34.9	23	30.12	0.54
LTA	9,714	36.20	24.35	34.55	0.95

COURSE	NO.	STATE MEAN	STATE ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Biology					
2022	18,891	35.2	26	36.02	0.99
High	18,891	41.55	26.9	37.48	1.12
Low	12,215	35.2	25.9	33.13	0.41
LTA	15,975	36.55	26.55	35.09	0.87



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Business Studies					
2022	17,950	37.2	23.6	34.25	0.99
High	17,950	37.4	24.3	40.83	1.62
Low	14,721	34.7	23.6	32.05	0.82
LTA	16,492	36.52	23.88	36.09	1.16

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Chemistry					
2022	9,929	36.5	31.7	40.85	0.92
High	11,173	38.3	31.8	42.43	1.13
Low	8,887	34.6	31.2	38.20	0.67
LTA	10,289	37.15	31.5	40.31	0.93



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Economics					
2022	5,378	38.8	31.4	36.32	0.51
High	6,136	39.0	32.2	40.08	0.88
Low	5,010	36.9	30.6	35.16	0.40
LTA	5,379	38.22	31.41	37.84	0.65

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Engineering Studies					
2022	2,346	36.5	26.0	40.02	1.43
High	2,400	38.2	26.0	40.02	1.43
Low	1,274	32.6	25.0	32.38	0.75
LTA	1,829	37.04	25.64	35.94	1.11



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
English Advanced					
2022	24,661	41	32.1	36.45	0.52
High	28,066	41.2	33.2	40.28	0.99
Low	20,123	38.5	31.2	34.47	0.21
LTA	25,904	40.03	31.87	36.89	0.61

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
English Extension 1					
2022	3,427	42.2	36.2	36.21	0
High	6,282	42.6	38.4	41.92	0.92
Low	3,415	38.8	35.4	35.09	-0.31
LTA	4,904	40.85	36.42	38.49	0.32



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
English Extension 2					
2022	1,242	40.5	35.9	33.43	-0.35
High	2,608	41.6	38.1	45.29	1.38
Low	1,242	39.0	35.2	33.43	-0.46
LTA	1,914	39.97	36.32	37.17	0.12

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Geography					
2022	4,053	37.8	25.4	35.67	0.93
High	6,210	38.6	26.0	39.15	1.31
Low	4,109	35.9	24.8	32.84	0.75
LTA	4,617	37.44	25.35	36.31	1.03



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Legal Studies					
2022	10,225	37.1	24.9	34.66	0.89
High	10,797	38.2	25.7	38.62	1.31
Low	7,523	33.1	24.9	29.82	0.44
LTA	9,319	37.06	25.25	35.38	0.95

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Mathematics Adv.					
2022	16,865	39.3	31.7	40.44	0.92
High	20,799	39.8	31.4	40.54	1.02
Low	16,139	36.2	29.8	34.81	0.53
LTA	17,667	38.32	30.74	38.73	0.83



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Mathematics Extension 1					
2022	8,679	39	40	43.78	0.49
High	9,955	41.0	40.1	44.75	0.83
Low	6,240	36.6	37.6	41.34	0.41
LTA	8,810	39.65	39.44	43.47	0.57

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Mathematics Extension 2					
2022	3,271	40.9	44.2	46.11	0.38
High	3,512	41.9	44.7	46.71	0.70
Low	2,578	39.7	42.7	44.84	0.22
LTA	3,218	40.99	43.62	45.81	0.46



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Modern History					
2022	10,153	37	25.4	35.16	0.90
High	11,329	38.6	27.6	38.51	1.11
Low	8,751	36.5	25.5	32.07	0.48
LTA	10,159	37.57	26.65	35.94	0.86

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
History Extension					
2022	1,532	39.9	33.6	36.08	0.34
High	2,397	42.7	35.2	40.83	0.96
Low	1,524	34.6	33.6	33.02	-0.26
LTA	1,991	38.33	34.10	37.30	0.48



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Music 1 2 unit					
2022	4,263	41.2	21.4	33.69	1.16
High	5,126	41.2	22.8	41.46	1.92
Low	3,555	37.2	21.1	26.07	0.37
LTA	4,528	40.04	21.78	33.37	1.12

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Music 2 Unit					
2022	684	43.4	34.2	42.61	1.03
High	850	44.0	34.4	43.68	1.37
Low	539	40.9	32.1	31.93	-0.05
LTA	689	42.87	33.41	39.13	0.71



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Music Extension					
2022	353	46.1	36.6	39.97	0.37
High	504	46.2	36.6	45.28	1.25
Low	332	41.7	33.9	31.85	-0.49
LTA	421	44.46	35.23	40.90	0.665

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
PDHPE					
2022	15,883	38.6	22.8	28.77	0.57
High	16,482	37.7	23.7	38.74	1.50
Low	9,284	33.7	22.7	29.54	0.57
LTA	13,671	36.17	23.14	34.04	1.03



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Physics					
2022	7,633	37.4	30.9	39.17	0.80
High	10,158	37.9	30.9	41.18	1.11
Low	7,633	34.5	30.1	36.94	0.70
LTA	9,111	36.95	30.46	39.11	0.89



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Software Design					
2022	1,806	37.4	26.8	41.60	1.35
High	3,666	37.9	26.1	39.10	1.45
Low	1,608	32.8	26.8	30.53	0.48
LTA	2,043	36.68	24.83	36.75	1.16

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Studies of Religion 1 Unit					
2022	8,433	38.4	27.3	33.11	0.63
High	9,950	39.2	28.1	36.95	1.06
Low	8,129	37.6	27.1	28.76	0.06
LTA	9,019	38.4	27.65	31.66	0.46



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Studies of Religion 2 Unit					
2022	6,091	38.6	27.1	29.90	0.27
High	6,280	39.4	27.8	39.89	1.26
Low	3,554	37.3	26.6	29.90	0.36
LTA	5,413	38.20	27.34	33.01	0.57

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Visual Arts					
2022	8,177	40.9	22.1	33.31	1.01
High	9,717	40.9	23.5	41.50	1.76
Low	8,177	36.1	21.9	26.04	0.35
LTA	9,026	39.74	22.65	32.16	0.88



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Chinese in Context					
2022	152	43.9	30.6	36.22	0.55
High	152	44.5	30.4	38.67	0.75
Low	84	42.8	26.6	25.50	-0.50
LTA	109	43.9	31.1	33.24	0.21

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Latin Continuers					
2022	141	42.3	39.9	43.32	0.48
High	217	46.1	41.1	48.07	1.26
Low	131	42.3	39.2	32.83	-1.57
LTA	166	44.21	40.17	40.33	0.02



Comparing Ourselves to the State Over Time

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Latin Extension					
2022	83	45.8	41.4	43.73	0.31
High	129	47.5	43.8	44.87	0.51
Low	50	44.0	41.0	21.95	-3.28
LTA	97	45.97	42.05	39.79	-0.41



Which University SBHS Students Attend

Course	2014	2015	2016	2017	2018	2019	2020	2021	2022	Average
New South Wales	124	145	127	147	137	131	149	157	147	140
Sydney	41	25	38	27	38	44	30	27	25	33
UTS	10	3	13	7	11	12	11	6	14	10
Macquarie	10	6	6	8	6	10	7	4	6	7
Western Sydney	4	8	11	9	3	3	3	4	12	6
ANU	8	7	5	4	5	3	0	1	1	4
Australian Catholic	3	4	1	1	6	5	5	1	2	3
Wollongong	0	2	1	1	1	1	1	1	1	1
Other	5	5	4	1	0	5	2	0	1	1
Total	205	205	205	205	207	214	210	205	209	207



University Courses SBHS Students Study

Course	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Science	18	12	11	18	10	36	32	26	20	38
Commercial	50	65	64	54	50	56	50	62	50	50
Health Sciences	38	39	46	36	36	28	28	34	26	31
IT/Computing	5	1	6	5	16	15	22	14	22	23
Arts	12	10	5	13	5	6	8	4	12	4
Design /Bldg	3	2	0	4	6	7	5	4	6	6
International Studies	6	4	1	3	4	1	1	3	3	1
Education	0	2	0	0	2	1	2	0	0	2





NUTURING SCHOLAR-SPORTSMEN SINCE 1883

Thank you.