

NUTURING SCHOLAR-SPORTSMEN SINCE 1883

HSC Results 2021

Presentation to SBHS P&C Community

By Dr K. A. Jaggar, OAM Monday 14th March 2022

The League Tables

§ The HSC newspaper rankings follow a formula:

(Band 6 / E4s earned / number of papers sat by students) x 100

§ To get in the Top 10 in the state, a school would need c.50% of Band 6s.

SBHS target is 600. This year, we only achieved 580.

- **§** We have very large numbers in the harder courses:
 - Mathematics Extension 1 (174) / Extension 2 (120)
 - English Advanced (213)
 - Physics (116), Chemistry (125)
 - Hence, it is harder to get 50% Band 6s

Second Second



SBHS ATAR History

- § 2021 Average ATAR = 92.59
 - with Standard Deviation (SD) of 7.54
 - % boys ≥ 90 (78.74) Since 2001 this average is 76.37%
- Since 2001, SBHS Average ATAR has been 92.66 with SD of 8.71
- Sour segmented ATAR History Mean & Standard Deviation & $\% \ge 90$

Years	ATAR Mean	Standard Deviation	≥ 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	92.59	7.54	78.74



HSC Results for Class of 2021

	ATAR	Oty of Students				
3.10	≥ 99	31				
0.57	95 – 98.95	74				
2.59	90 - 94.95	58				
	85 – 89	20				
	80 - 84	16				
(max)	75 – 79	14				
	70 – 74	3				
 163 students (78.74%) achieved ATAR >/= 90 						
 Tail 16 students (7.51%) achieved ATAR < 80 						
	ATAR >/= 90	80 - 84 (max) 75 - 79 70 - 74 70 - 74 ATAR >/= 90 <70				

[lowest tail percentage since 2015; 2020 was 9.39]

Sof the lowest 20 ATARS, 13 students were enrolled in Year 7 in 2016



SBHS High Achievers in Courses - Top <u>10</u> State Ranking

- Section 3: Physics 2 Hanyang Zheng Mathematics Extension 1; Physics 2
- SRyan Lee Chemistry 1; Engineering Studies 10
- Sarfaraz Ahmed (Year 11) Mathematics Advanced 1
- Sicholas Arvanitellis Latin Extension 2
- § Yifei Wu Chinese in Context 2
- Scyril Vivek Subramanian Software Design and Development 6
- § Rachit Saini (11E) Hindi Continuers 1
- Solution Other State Ranking Achievements:
 - Chemistry Eric Ho (7), Auguste McNally (10), Richard Bao (13)
 - Mathematics Advanced Andy Xia (14) from Year 11
 - Engineering Studies Ryan Lee (10)
 - Biology Julian Waring (17)



Bands 5 & 6 comparative Results (2021 v 2020)

Courses Up	12
Courses Down	10
Courses the Same	8

HSC 2021 v Long Term Average (2015-2021 5&6)Courses Up10Courses Down14Courses the Same6



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.

Second 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 <u>at least one standard deviation</u> above the mean.

Solution 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)

S 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.

Solution The Standard Stand

- 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

SOTE: 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
Software Design	11	92.15	1.44
Design and Technology	5	92.32	1.25
Geography	31	88.53	1.10
PD/H/PE	8	85.30	1.08
Modern History	20	88.52	1.06
Business Studies	22	87.84	1.05
Music 1	1	91.04	1.04

Sour expectations are that in 2-unit courses, our course mean should be as close to <u>one standard deviation</u> above the State mean as possible. N=7 for 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
Legal Studies	16	88.43	0.99
Ancient History	10	86.94	0.98
Chemistry	111	86.68	0.96
Music 2	6	93.97	0.93
Physics	115	86.71	0.92
Engineering Studies	8	85.38	0.92
Mathematics Advanced	158	89.46	0.86
Drama	8	87.48	0.85
Biology	42	82.99	0.83

Successful courses 2021 n= 9 (n=7, 2020)

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

Course	No. Students in SBHS	School Mean	Z Score
Music Extension	2	49.15	0.87
History Extension	5	43.9	0.75
Mathematics Extension 1	174	89.96	0.52

Signature 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.

Highly Successful for Ext 2 courses (Z-Score > 0.25)

Course	No. Students in SBHS	School Mean	Z Score
Mathematics Extension 2	120	88.72	0.43

- S The following tables describe the course name and below them a statement comparing Y2021 result to that of previous years in that course at High going back as far as 2001 when the new HSC began
- Solution The Course is followed by two scores at the 90th percentile
- SThen similar pairs of scores for the 75th percentile and 50th percentile
- Solution The State of the St
- SThe 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
- Solution The Solution of the number of band 6/E4s as a fraction of the total number of candidates in that class or group.



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	0.85	89	76.2	83	63.8	71.6	46.4	4/10
	_							

S Highest school course mean since 2018

Above long-term average 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	0.83	88	78.6	82	67.6	73.8	51.8	9/42

§ Highest ever candidate numbers in the State
Improved

Improved mean and z-score over 2020 results

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	1.05	89	76.8	83	64.6	73.8	47.8	11/22

§ SBHS result was above long-term school mean



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	0.96	91	87.2	85	79.4	74.8	63.0	53/111

§ SBHS course result above long term mean Above long-term average 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
Design and Technology	1.43	92	75	87	61.6	79.6	45.2	<mark>5/5</mark>
						100		

SBHS course result well above long-term mean 100% band 6s

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	0.02	93	78	87	63.8	79	47.7	5/8

S Highest z-score since 2016

Result above long-term course mean



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	0.49	91	86	86	78.4	78	63.8	15/59

S Highest state mean since 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
Engineering Studies	0.92	90	77.4	83	66.4	75.4	52.2	4/8

S Highest state candidature since new HSC began Highest scaled value at the 50th percentile since 2001

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	0.46	91	84	87	76.6	82	66.4	45/213

S Highest state mean since new HSC began

SBHS course mean 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
English Extension 1	-0.16	94	88.2	92	83	85.2	73.2	11/40

S Highest state mean since 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
English Extension 2	-0.48	94	89.2	90	82.8	82	74.4	0/7

§ Lowest state candidature 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
Geography	1.10	90	80	85	68.6	77	52.2	12/31

S Highest SBHS candidature since new HSC began Equal highest course 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
Legal Studies	0.99	91	79.6	86	67.8	75.2	50	10/16

Second highest school mean since 2014 Above long-term course mean 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	
Mathematics Advanced	0.86	94	86.1	89	77.6	78.8	62.8	109/158	
S Above long-term course mean Above long-term course mean z-score									

HSC 50th Course **Z-Score** HSC ATAR Scaled HSC **ATAR Scaled ATAR Scaled B6/N** 90th **90**th 75th 75th Percentile 50th Percentile Percentile Percentile Percentile Percentile Mathematics Extension 1 0.65 95 92 91 78.8 79.8 105/174 96

§ Lowest state candidature since 2008

SBHS largest candidature since 2008



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	0.43	95	97	93	94.6	83.6	88	74/120

S Equal second highest state mean since 2011

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	1.06	90	79.2	84	67.8	73.2	50.6	11/20

S Above long-term course mean and average 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
History Extension	0.75	94	85.6	88	77.4	78.2	66.8	4/5

S Highest SBHS course mean and z-score since 2009



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	1.04	93	73	88	57.8	81.8	42.2	<mark>1/1</mark>

S Above long-term school course mean

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	0.93	96	89.8	93	80.8	87.8	67	<mark>6/6</mark>
S Above long-term sch	nool course	e mean and	core	100% Band 6	ĎS			

S Above long-term school course mean and average 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
Music Extension	0.87	100	95.8	98	85.8	89.6	70.4	<mark>2/2</mark>

§ Highest SBHS z-score since 2017

Above long-term school course mean 100% E4s



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	1.08	88	75.8	82	62.6	72.6	46.2	3/8

S Largest state HSC candidature since new HSC began

Second highest school Z-Score 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
Physics	0.92	90	85.6	85	77.6	75.8	61.2	42/115

Smallest state candidature since new HSC began Above long-term school course mean and Z-Score 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
Software Design	1.44	91	81.2	84	68	74.6	51.2	9/11

S Highest school course mean since new HSC began Highest school Z-Score 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
Studies of Religion I-unit	0.73	90	79	84	69.2	75.6	55.2	2/11

Second highest school Z-Score since 2015

Above long-term school course mean

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	0.63	90	80.4	86	70.6	76.4	55	3/12

S Above long-term school course mean and average course 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
Visual Arts	0.65	91	75.6	88	61	81.4	44.2	3/8

§ Equal highest State mean since new HSC began

Above long-term school course mean



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	0.57	97	87	95	76.6	89	61.4	<mark>7/7</mark>

Solution States Above long-term course mean and average Z-Score

100% Band 6s

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	- 0.20	95	95.4	93	92	85.8	81.6	5/8

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	-1.39	98	97	98	92.4	96	87.8	4/5

S Above long-term course mean and average z-score



Comparing to Statistically Similar Groups

Solution How well did we perform compared to our statistically similar group?

- That is, a comparison group of selective school students, moderated for socioeconomic differences)
- Solution 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 2021	SSSG Average 2021	State Mean 2021	SBHS v SSG Difference
Ancient History	87.2	83.8	71.06	+1.78
Biology	83.52	85.01	73.38	-1.49
Business Studies	88.14	85.92	73.32	+2.2
Chemistry	87.01	84.52	74.37	+2.49
Economics	83.5 9	84.75	77.66	-1.16
Engineering Studies	86.5	86	74.79	+1.33
English (Advanced)	85.68	86.4	81.92	-0.72
English Extension 1	85.0	87.7	84.14	-2.7
English Extension 2	75.14	84.47	74.98	-9.33
Drama	88.63	88.4	78.70	+0.23



Course	SBHS 2021	SSSG Average 2021	State Mean 2021	SBHS v SSSG Difference
Geography	88.9	86.31	75.75	+2.59
Legal Studies	88.5	86.7	74.72	+1.8
Mathematics	89.89	85.66	78.41	+4.23
Mathematics Extension 1	87.87	85.85	78.21	+2.02
Mathematics Extension 2	89.13	87.75	83.07	+1.38
Modern History	88.75	85.79	72.85	+2.96
PDHPE	85.5	83.39	72.19	+2.11
Physics	87.03	84.8	75.34	+2.23
Studies of Religion 1	84.91	85.15	74.76	-0.24
Studies of Religion II	84.0	81.84	75.86	+2.16



Course	SBHS 2021	SSSG Average 2021	State Mean 2021	SBHS v SSSG Difference
Software Design	92.55	85.9	74.15	+6.65
Visual Arts	87.13	89.74	80.99	-2.61
History Extension	90.4	86.05	77.38	+4.35
Chinese in Context	94.14	94.1	88.61	+0.04
Design & Technology	92.5	84.9	78.54	+7.6
Drama	80.8	87.9	79.62	-7.1
Classical Greek Cont.	84	92	93.07	-8.0
Latin Continuers	84.25	87.49	85.35	-3.24
Latin Extension	93.6	92.24	90.72	+1.36
Music 1	91	90.23	81.34	+0.77
Music 2	94.17	90	87.57	+4.89
Music extension	99	91.32	88.94	+7.68



- Solution The first column describes the course and its number of candidates in the state current – highest – lowest and mean since 2001.
- In the second column, there is the history of the state mean in the course current highest lowest and mean since 2001.
- In the third column, the ATAR unit value is recorded, where 25 is average.
- In the fourth column, the school ATAR scaled unit value for the average student in the course – NOTE: the school standard is 37.1
- In the fifth column is 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.



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	ATAR Z-SCORE
	NO.			UNIT VALUE JUALED	2-300KL
Ancient History					
2021	6,375	35.8	23.2	33.92	0.98
High	12,144	37.5	25.1	37.60	1.27
Low	6,375	34.9	23.3	30.12	0.54
LTA	9,874	36.20	24.41	34.40	0.93
			ATAR UNIT	SCHOOL ATAR MEAN	
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
Biology					
2021	18,708	36.9	25.9	34.33	0.83
		50.7	20.7	54.55	0.00
High	18,708	37.4	26.9	37.48	1.12
High Low					



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Business Studies					
2021	17,662	36.9	23.9	35.18	1.05
High	17,877	37.4	24.3	40.83	1.62
Low	14,721	34.7	23.6	32.05	0.82
LTA	16,423	36.49	23.9	36.18	1.17

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Chemistry					
2021	9,884	37.4	31.5	40.98	0.96
High	11,173	38.3	31.8	42.43	1.13
Low	8,887	34.6	31.2	38.20	0.67
LTA	10,306	37.19	31.5	40.28	0.93



			ATAR UNIT	SCHOOL ATAR MEAN	
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
Design and Techno	ology				
2021	3,429	39.8	22.6	35.28	1.25
High	4,457	39.8	22.6	39.60	1.84
Low	3,148	34.7	21.3	18.21	-0.32
LTA	3,512	38.28	22.0	31.88	0.96
			ATAR UNIT	SCHOOL ATAR MEAN	
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
Drama					
2021	3,938	39.5	23.8	33.3	0.85
High	5,134	40	24.3	37.92	1.33

23.5

23.93

3,902

4,550

Low

LTA

37.5

38.97



-0.13

0.48

22.91

29.05

COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Economics					
2021	5,043	39.0	31.9	36.53	0.49
High	6,136	39.0	32.2	40.08	0.88
Low	5,010	36.9	30.6	35.16	0.40
LTA	5,396	38.19	31.41	37.84	0.66
COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Engineering Studie	es s				
2021	2,400	37.7	26.1	34.88	0.92
High	2,400	38.2	26.1	38.63	1.39
Low	1,274	32.6	25.0	32.38	0.75
LTA	1,804	37.07	25.62	35.94	1.10



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
English Advanced					
2021	24,773	41.2	32.2	35.28	0.37
High	28,066	41.2	33.2	40.28	0.99
Low	20,123	38.5	31.2	34.47	0.21
LTA	25,963	39.99	31.86	36.91	0.62
			ATAR UNIT	SCHOOL ATAR MEAN	
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
English Extension ²	1				
2021	3,415	42.6	36.6	35.52	-0.16
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	40.78	36.43	38.60	0.34



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
English Extension	2				
2021	1,308	40.2	36.6	33.51	-0.23
High	2,608	41.6	38.1	45.29	1.38
Low	1,308	39.0	35.2	33.43	-0.46
LTA	1,948	39.94	36.35	37.36	0.15
COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Geography					
2021	4,438	38.1	25.3	37.29	1.10
High	6,210	38.6	26.0	39.15	1.31
Low	4,109	35.9	24.8	32.84	0.75
LTA	4,644	37.42	25.35	36.34	1.03



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Legal Studies					
2021	10,693	37.6	25.0	35.85	0.99
High	10,797	38.2	25.7	38.62	1.31
Low	7,523	33.1	24.9	29.82	0.44
LTA	9,276	37.06	25.27	35.42	0.95
COUDEE			ATAR UNIT	SCHOOL ATAR MEAN	
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
Mathematics Adv.					
2021	16,769	39.4	31.4	39.48	0.86
High	20,799	39.8	31.4	40.54	1.02
Low	16,139	36.2	29.8	34.81	0.53
LTA	17,705	38.27	30.70	38.65	0.83



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE				
Mathematics Exter	Mathematics Extension 1								
2021	8,547	39.4	39.9	43.91	0.52				
High	9,955	41.0	40.1	44.75	0.83				
Low	6,240	36.6	37.6	41.34	0.41				
LTA	8,816	39.69	39.41	43.45	0.58				
			ATAR UNIT	SCHOOL ATAR MEAN					
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE				
Mathematics Exter	nsion 2								
2021	3,193	41.8	44.0	46.13	0.43				
High	3,512	41.9	44.7	46.71	0.70				
Low	2,578	39.7	42.7	44.84	0.22				
LTA	3,216	40.99	43.59	45.79	0.47				



COURSE	NO.	STATE MEAN	ATAR UNITSOSTATE MEANVALUE SCALEDL		Z-SCORE	
Modern History						
2021	10,890	36.6	25.3	36.90	1.06	
High	11,329	38.6	27.6	38.51	1.11	
Low	8,751	37.1	25.5	32.07	0.48	
LTA	10,159	37.60	26.71	35.98	0.86	
COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE	
History Extension						
2021	1,742	39.1	33.4	39.03	0.75	
High	2,397 42.7		35.2	40.83	0.96	
Low	1,524	34.6	33.6	33.02	-0.26	
LTA	2,013 38.26		34.13	37.36	0.49	



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Music 1 2 unit					
2021	4,697	40.9	21.1	32.37	1.04
High	5,126	41.1	22.8	41.46	1.92
Low	3,555	37.2	21.1	26.07	0.37
LTA	4,528	39.97	21.81	33.35	1.12
COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
COURSE Music 2 Unit	NO.	STATE MEAN			Z-SCORE
	NO . 710	STATE MEAN 43.9			Z-SCORE 0.98
Music 2 Unit			VALUE SCALED	UNIT VALUE SCALED	
Music 2 Unit 2021	710	43.9	VALUE SCALED 33.5	UNIT VALUE SCALED 41.81	0.98



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Music Extension					
2021	381	44.8	35.2	43.55	0.87
High	504	46.2	36.2	45.28	1.25
Low	332	41.7	33.9	31.85	-0.49
LTA	424	44.37	35.15	40.95	0.66
COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
PDHPE					
2021	16,482	36.3	23.1	34.40	1.08
2021 High	16,482 16,482	36.3 37.7	23.1 23.7	<mark>34.40</mark> 38.74	1.08 1.50



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Physics					
2021	7,922	37.9	30.6	39.84	0.92
High	10,158	37.9	30.9	41.18	1.11
Low	7,922	34.5	30.1	36.94	0.70
LTA	9,182	36.93	30.43	39.11	0.90



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Software Design					
2021	1,714	37.3	25.6	37.74	1.44
High	3,666	37.9	26.1	39.10	1.45
Low	1,608	32.8	23.6	30.53	0.48
LTA	2,054	36.64	24.74	36.52	1.15
0011005	No		ATAR UNIT	SCHOOL ATAR MEAN	7 00005
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
Studies of Religion	1 Unit				
2021	8,389	37.8	27.6	34.23	0.73
High	9,950	39.2	28.1	36.95	1.06
Low	8,129	37.6	27.1	28.76	0.06
LTA	9,061	38.4	27.67	31.56	0.44



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE			
Studies of Religion 2 Unit								
2021	6,132	38.2	27.5	33.77	0.63			
High	6,280	39.4	27.8	39.89	1.26			
Low	3,554	37.3	26.6	30.26	0.36			
LTA	5,365	38.17	27.36	33.24	0.60			
			ATAR UNIT	SCHOOL ATAR MEAN				
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE			
Visual Arts								
2021	8,417	40.7	22.1	29.30	0.65			
High	9.717	40.7	23.5	41.50	1.76			
Low	8,417	36.1	21.9	26.04	0.35			
LTA	9,026	39.68	22.68	32.11	0.87			



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Chinese in Context					
2021	130	44.5	30.7	36.58	0.57
High	137	44.5	30.4	38.67	0.75
Low	84	42.8	26.6	25.50	-0.50
LTA	109	43.9	31.1	32.81	0.16
			ATAR UNIT	SCHOOL ATAR MEAN	
COURSE	NO.	STATE MEAN	VALUE SCALED	UNIT VALUE SCALED	Z-SCORE
Latin Continuers					
2021	154	42.9	40.8	39.32	-0.20
High	217	46.1	41.1	48.07	1.26
Low	131	42.6	39.2	32.83	-1.57
LTA	167	44.20	40.18	40.19	0.00



COURSE	NO.	STATE MEAN	ATAR UNIT VALUE SCALED	SCHOOL ATAR MEAN UNIT VALUE SCALED	Z-SCORE
Latin Extension					
2021	101	45.8	41.4	41.24	-0.02
High	129	47.5	43.8	44.87	0.51
Low	50	44.0	41.0	21.95	-3.28
LTA	98	45.97	42.08	32.81	-0.45



Universities SBHS Students Attend

Course	2014	2015	2016	2017	2018	2019	2020	2021	Average 1995 ->
New South Wales	124	145	127	147	137	131	149	157	94
Sydney	41	25	38	27	38	44	30	27	46
UTS	10	3	13	7	11	12	11	6	11
Macquarie	10	6	6	8	6	10	7	4	9
Australian Catholic	3	4	1	1	6	5	5	1	1
ANU	8	7	5	4	5	3	0	1	3
Western Sydney	4	8	11	9	3	3	3	4	6
Wollongong	0	2	1	1	1	1	1	1	1
Other	5	5	4	1	0	5	2	0	1
Total	205	205	205	205	207	214	210	205	176



University Courses SBHS Students Study

Course	2013	2014	2015	2016	2017	2018	2019	2020	2021
Engineering	48	36	39	47	43	43	33	32	45
Commerce	50	65	64	54	50	56	50	62	50
Law	17	29	24	22	27	12	24	21	22
Arts	12	10	5	13	5	6	8	4	12
Science	18	12	11	18	10	36	32	26	20
Health Sciences	38	39	46	36	36	28	28	34	26
Design	3	2	0	4	6	7	6	4	5
Communication	0	0	3	4	1	0	0	2	4
International Studies	6	4	1	3	4	1	1	3	3
IT / Systems	5	1	6	3	16	15	28	14	7
Education	0	2	0	0	2	1	2	0	0





NUTURING SCHOLAR-SPORTSMEN SINCE 1883

Thank you.