

# Higher School Certificate 2010



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# Band 6 Growth

<b>Year</b>	<b>School Band 6</b>	<b>State Band 6</b>	<b>Students Awarded Band 6</b>	<b>State Percent Band 6 v all bands</b>	<b>State Band 6 per B6 student</b>	<b>School Band 6 per all students</b>
2006	520	29331	14010	9.0	2.09	2.48
2007	512	31641	14607	9.6	2.17	2.44
2008	572	34282	15697	10.4	2.18	2.75
2009	531	34718	15781	10.4	2.2	2.65
2010	585	37100	16721	10.8	2.22	3.06

## Band 6 Growth (cont.)

	<b>State Band 6 Growth</b>	<b>School Band 6 Growth</b>
2006	1.01	1.07
2007	1.08	0.98
2008	1.08	1.11
2009	1.01	0.93
2010	1.07	1.10

# Band 6 Comparisons

New HSC	Students	Annual Growth	Band 6	Annual Growth	State B 6 %	Annual Growth	School Band 6	Annual Growth
2006	14010	1.05	29331	1.01	9.00	1.01	520	1.07
2007	14607	1.04	31641	1.08	9.60	1.07	512	0.98
2008	15697	1.09	34282	1.08	10.4	1.08	572	2.75
2009	15781	1.01	34718	1.01	10.4	1.00	531	0.93
2010	16721	1.06	37100	1.07	10.8	1.04	585	1.10

# Explanation of Terms

## **Z score:**

A z score for an HSC course is the school mean minus the state mean divided by the state standard deviation.

## **The school mean ATAR unit value:**

The school mean ATAR unit value is the school per unit scaled mean, minus the state per unit scaled mean, divided by the state per unit HSC standard deviation, multiplied by the ATAR per unit standard deviation; the result being added to the state ATAR mean unit scaled value.



# What Does ATAR Unit Value Mean?

The ATAR unit value is the score the average SBHS student received as a calculation towards an ATAR.

- 99.95 10 units @ 47.7
- 99.5 10 units @ 45.6
- 99 10 units @ 44.6
- 98 10 units @ 43.2
- 97 10 units @ 42.3
- 96 (41.1)
- 95 (40.4)
- 94 (39.5)
- 93 (38.75)
- 92 (38.06)
- 91 (37.58)
- And 90 (36.76)

# Mean and Z Score Above Long Term Average

	SUBJECT		SUBJECT
1.	English Advanced	12.	German Continuers
2.	English Extension	13.	German Extension
3.	Mathematics Extension 2	14.	Geography
4.	Modern History	15.	Legal Studies
5.	History Extension	16.	Business Studies
6.	Ancient History	17.	Economics (z Score)
7.	Studies of Religion I	18.	PDHPE
8.	Chemistry	19.	Engineering Studies
9.	Latin Continuers	20.	Software Design
10.	Classical Greek	21.	Music 2
11.	Classical Green Extension		

# Mean and Z Score Below Long Term Average

	SUBJECT
1.	English Extension 2
2.	Extension Mathematics
3.	Studies of Religion II
4.	Biology
5.	Physics
6.	Latin Extension
7.	Economics
8.	Visual Arts
9.	Music 1
10.	Music Extension



# English Advanced

- Highest school mean since 2001 (87.57) and highest state mean since 2001 (80.57).
- Best z score 0.867 for new HSC (10 year average 0.595)
- Best school ATAR mean unit value (39.14) and best z score for unit value (0.84). 10 year average 36.48 and 0.57 respectively

N=192

# English Extension 1

- Highest school mean since 2001 (45.087)  
v 10 year average 40.68
- Best z score 0.928 (10 year average 0.22)
- Best school mean ATAR unit value (41.92)  
v 10 year average 37.85.
- Best z score (0.92). 10 year average 0.17

N=52

# English Extension 2

- The school mean of 41.62 was below the 10 year average of 41.90
- z score 0.314 was above the 10 year average 0.271
- The school mean ATAR unit value was 37.89, below the 10-year average of 38.01
- The z score of 0.26 was above the 10 year average of 0.17

N=5

# Mathematics 2 Unit

- The school mean of 88.51 was the second highest ( long term average = 85.69)but the state mean of 76.1 was the highest since 2001.
  - The z score of 0.808 was above long term average of 0.789.
  - The school mean ATAR unit value was 38.28, above the 10 year average of 37.46.
  - The z score of 0.81 was also above the 10 year average of 0.78
- N=140

# Mathematics Extension 1

- The school mean of 85.70 was below the 10 year average of 85.98 but the state mean of 80.65 was the highest since 2001.
  - The z score of 0.353 was below the 10 year average 0.485
  - The school mean ATAR unit value was 42.02, below the long term average of 42.97 and the z score of 0.32 was below the 10 year average of 0.49.
- N=168

# Mathematics Extension 2

- The school mean of 87.12 was above the long term average of 86.55, but the state mean of 83.38 was the highest since 2001.
  - The z score 0.338 was below the long term average of 0.404.
  - The school ATAR unit value was 45.27, below the 10 year average of 45.75.
  - Likewise, the z score of 0.33 was below the long term average of 0.39
- N=118



# Modern History

- The school mean of 85.97 was above the long term average of 84.96.
- The z score of 0.865 was the third best since 2001.
- The School ATAR mean unit value of 36.15 was also better than the 10 year mean of 35.37
- The z score of 0.86 also was the third highest since the new HSC began.

N=39

# Modern History Extension

- The History Extension mean of 42.60 was above the long term mean of 41.30.
- The z score of 0.658 was above the long term mean of 0.551.
- The school ATAR mean unit value of 38.27 was above the long term average of 37.83 and
- The z score of 0.61 was higher than the 10 year average of 0.53

N=2

# Ancient History

- The school mean of 86.68 was just above the 10 year average of 86.27.
- The z score of 0.933 was the fourth best since 2001.
- The school mean ATAR unit value of 34.46 was below the long term average of 34.70
- The z score was equal to the average at 0.92

N=10

# Studies of Religion

- The one unit course mean of 39.97 was slightly above the four-year average of 39.75.
- The z score of 0.267 was below the four-year mean of 0.296.
- The school ATAR mean unit value of 29.16 was below the average of 30.44.
- The two unit course mean of 81.84, was below the three-year average of 86.85. The z score also was well below the three-year mean.
- The school ATAR mean unit value of 31.74 was lower than the mean of 36.00, reflected also in a lower z score.

N= 17 (1 unit) N=5 (2 unit)

# Biology

- The school mean of 78.42 was below the 10 year mean of 82.79.
- The z score of 0.438 was the lowest since 2001.
- The school ATAR mean unit value of 30.90 was well below the long-term value of 34.52
- The z score of 0.41 was the lowest since 2001.

N=12

# Physics

- The school mean of 83.19 was slightly below the 10 year average of 83.63.
  - The z score of 0.716 was also less than the long term average of 0.810.
  - The school ATAR mean unit value was 36.94, below the 38.00 of the long-term average.
  - The z score of 0.70 was short of the 0.80 long term mean.
- N=109



# Chemistry

- The school mean of 84.78 was above the 10 year average of 83.31
- The z score of 0.784 was below the long-term average of 0.829.
- The school ATAR mean unit value, 38.76, was below the long-term average value of 39.07
- The z score at 0.77 was also less than the 10 year average of 0.81.

N=89

# Classics

- The Latin Continuers mean was just above the 10 year average at 90.84. Its school ATAR mean unit value was 41.76, with a z score above average.  
N=5
- Latin Extension at 45.94 did not achieve the state mean of 46.11, yet three or four students earned E4. N=4
- In Classical Greek Continuers the sole candidate came first in the state and earned E4 in Classical Greek Extension.

# Languages

- All four Chinese Continuers candidates received a Band 6 and the single Extension candidate, an E4.
- Four French Continuers achieved the highest mean since 2001 (92.9) with three Band 6 results and one 89. This is the second best z score result since 2001 at 1.072 (10 year average =0.53)
- Three German Continuers scored one Band 6 and two Band 5s. The mean and z score were above long-term average. One Extension student earned an E4.

# Earth and Environmental Science

- This was a new course resulting in one Band 6 and two Band 5s.
- The mean of 87.7 was good.
- The ATAR value was 35.58 with a 1.08 z score.

# Geography

- The school mean of 87.21 compared favourably to the long-term mean of 86.41 as did the z score of 1.095 with 1.01 as the 10 year average.
- The school mean ATAR unit value, 36.56, was above the long term average of (35.74) and the z score of 1.07 was the third best under the new HSC.

N=14

# Legal Studies

- The school mean of 89.92 was the second highest since the new HSC began, as was the z score of 1.179, compared to the long-term average of 84.78 and 0.94 respectively.
- The school ATAR mean unit value was 38.02, also the second best result in 10 years. This was reflected in the z score of 1.18; well above the 10 year average of 0.94.

N=30



# Economics

- The school mean of 84.42 was slightly below the long-term average of 85. However, the lowest ever state mean of 73.46 resulted in a z score of 0.705, above the 10 year average of 0.68.
- In school ATAR mean unit value terms, the mean of 37.62 was slightly above the long term average of 37.50
- The z score of 0.69 was above the 10 year mean of 0.67.

# Business Studies

- Business Studies had the highest ever state mean of 74.35. The school mean of 89.42 was well above the 10 year average of 85.42. The z score of 1.271 was the 3rd highest since 2001.
- The school ATAR mean unit value of 36.71 was above the long-term average of 35.01. The z score of 1.26 was strong compared to the 10 year average of 1.10.

N=19

# PDHPE

- This subject had its highest number of candidates and highest state mean since 2001. At 83.7, the school mean was above the long-term average of 83.01.
- The z score of 0.787 was below the 0.955 long-term average.
- The school ATAR mean unit value , 31.19, was below the long-term average of 32.86; as was the z score of 0.78 (0.95) N=8

# Engineering Studies

- The school mean of 87.21 was the third highest since 2001, and above the long term average of 85.79.
- The z score of 1.039 was just below the 1.049 long-term average.
- The school ATAR mean unit value , 34.93, was just below the long-term average of 35.3.
- The z score of 1.04 was also below the 10 year average of 1.1. N=14

# Software Design and Development

- The school mean was 86.15, above the long term average of 84.25.
- The z score of 1.171 was above the 1.034 long-term average; the third highest since 2001.
- The school ATAR mean unit value , 35.94, was above the long-term average of 35.0.
- The z score of 1.15 was again the third best since 2001 and above the 10 year average of 1.0.

N=17



# Visual Arts

- The school mean was 82.2, the lowest since the new HSC began. The 10 year average is 86.11
- The z score of 0.380 was also the lowest, below the long-term average of 0.88.
- The school ATAR mean unit value , 26.9, was below the long-term average of 32.27.
- The z score of 0.35 was again the lowest compared to the 10 year average of 0.88.

N=6



# Music Course 1

- This course had the highest ever number of candidates in the state and the highest ever mean. The school mean was 87.13, below the 10 year average of 90.77
- The z score of 0.725 was also below the long-term average of 1.16.
- The school ATAR mean unit value , 26.9, was below the long-term average of 32.27.
- The z score of 0.35 was again the lowest compared to the 10 year average of 0.88. N=3

# Music Course 2

- This course had the highest ever state mean of 85.48. The school mean was 92.99, above the 10 year average of 90.49
- The z score of 1.087 was 4<sup>th</sup> best since 2001 and above the long-term average of 0.908.
- The school ATAR mean unit value , 26.9, was below the long-term average of 32.27.
- The z score of 0.35 was again the lowest compared to the 10 year average of 0.88.

N=3

# Music Extension

- This course had the highest ever state mean of 44.49 and the equal highest number of candidates. The school mean was 46.3, below the 10 year average of 47.25.
- The z score of 0.50 was the lowest since 2004 and below the long-term average of 0.735.
- The school ATAR mean unit value , 38.70, was also the lowest since 2004 and below the long-term average of 40.43.
- The z score of 0.44 was again the lowest since 2004 and below the 10 year average of 0.72. N=8

