

2018 Chemistry ANCQ

BAL BHARATI PUBLIC SCHOOL, NOIDA

The following report contains the results of those students from your school who entered the 2018 Royal Australian Chemical Institute's ANCQ.

The entry statistics for the entire quiz are followed by the statistics for each year and then by the student lists for each year that show; raw score, percentile rank within other entrants from the same year and state as well as the level of award (if any).

The awarding of certificates of merit indicates is described below

HD Excellence - Award of Excellence for outstanding performance

High Distinction - The top 10% of students in the state

Distinction - The next 15% of students in the state (10% - 25%)

Credit - The next 15% of students in the state (25% - 40%)

Please check your results carefully. Some errors or omissions may have occurred because of incorrectly marked sheets. We have tried where possible to pick up these problems. If the student name or school year appears to be incorrect, please try to assign them by elimination.

Thank you for your participation in this years quiz. We look forward to your support again next year.

The table below contains entry numbers for this year.

State	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Schools
VIC	405	408	402	661	1831	1014	88
QLD	371	411	406	1525	1640	1599	112
WA	491	675	716	1060	840	723	61
TAS	21	58	48	56	36	95	13
New Zealand	4	30	50	130	305	247	33
Singapore	90	155	534	443	144	92	15
Hong Kong	33	699	0	1847	1704	23	129
China	0	89	0	1038	255	12	80
Indonesia	0	0	13	9	3	0	1
India	752	9215	876	13575	5434	4830	353
Sri Lanka	0	0	0	3289	2549	0	175
Brunei	0	0	247	247	36	146	35
UAE	0	22	0	34	6	0	1
Oman	0	46	0	48	31	42	2
Bahrain	0	18	0	38	27	14	1
Malaysia	12	17	56	139	83	201	10
Philippines	0	10	70	70	45	25	3
Germany	0	0	0	0	1437	111	115
NSW	1180	1566	1597	1972	1947	826	119
NT	2	7	10	14	81	57	5
SA	16	52	36	59	438	201	21
ACT	91	110	115	215	261	194	20
Fiji	0	0	12	23	50	43	5
Samoa	0	0	29	25	39	1	1
Vietnam	0	1013	250	1094	825	60	51
Thailand	0	0	0	4979	3830	3414	43
PNG	4	2	2	14	4	27	3

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2018 Chemistry ANCQ

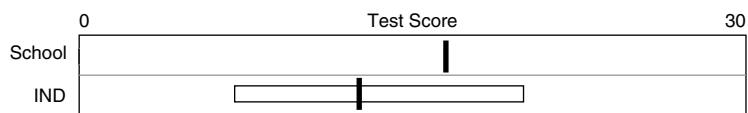
BAL BHARATI PUBLIC SCHOOL, NOIDA

Dear Principal

Thank you for taking part in the 2018 ANCQ. This report provides your school's results. Details about each year level that participated can be found on subsequent pages.

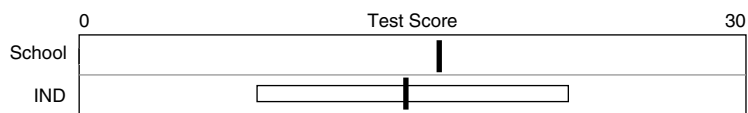
Year 7

	School	IND
Participants	2	3849
Average Score	16.5	12.6



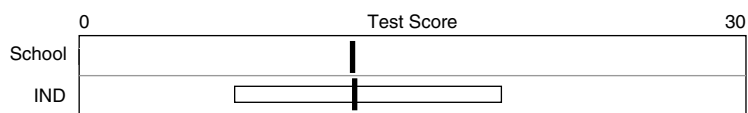
Year 8

	School	IND
Participants	5	4073
Average Score	16.2	14.7



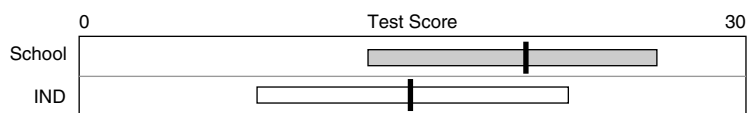
Year 9

	School	IND
Participants	7	4924
Average Score	12.3	12.4



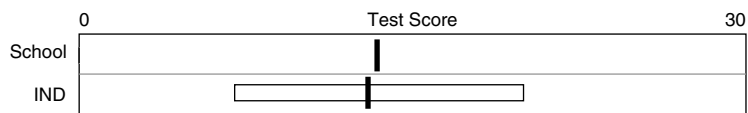
Year 10

	School	IND
Participants	16	4799
Average Score	20.1	14.9



Year 11

	School	IND
Participants	8	3738
Average Score	13.4	13.0

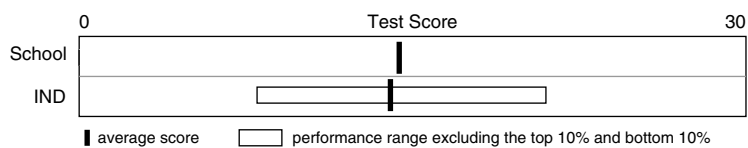


■ average score □ performance range excluding the top 10% and bottom 10%

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Year 12

	School	IND
Participants	8	3092
Average Score	14.4	14.0



Students in your school received 1 High Distinction Excellence, 10 High Distinction, 11 Distinction and 8 Credit awards in the 2018 ANCQ.

Thank you for participating in the 2018 ANCQ. The date of next years Quiz is Tuesday the 30th July 2019.

Yours sincerely

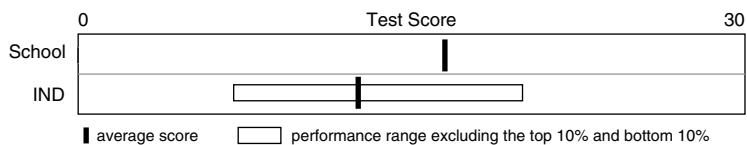
Dr Adam Cawley
(FRACI CChem)
ANCQ DIRECTOR

Section 2.1 Year 7

2018 Chemistry - Year 7 - Summary

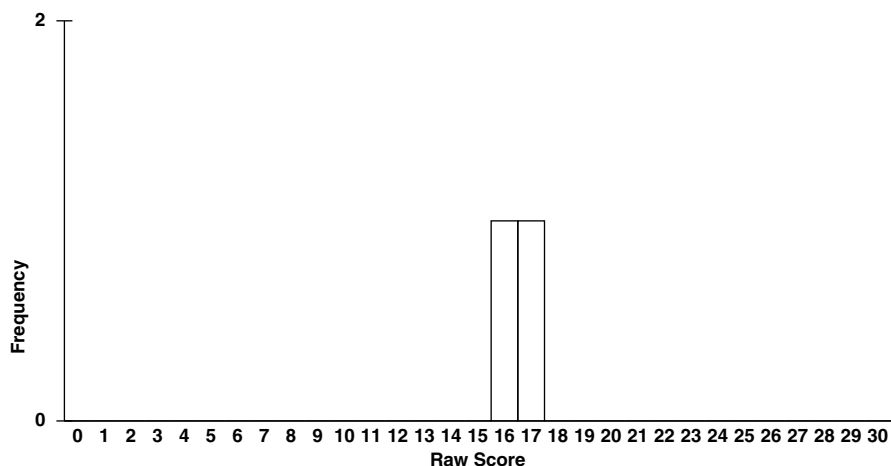
The graph below shows the performance of your Year 7 students in comparison to Year 7 students in IND, expressed in raw scores.

	School	IND
Number Of Questions	30	30
Participants	2	3849
Average Score	16.5	12.6
Standard Deviation	0.7	4.9
Highest Score	17	30



The table and graph below provide the frequency distribution of raw scores.

Score	Frequency	Percentage	Cumulative Frequency	Cumulative Percent
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	1	50	1	50
17	1	50	2	100
18	0	0	2	100
19	0	0	2	100
20	0	0	2	100
21	0	0	2	100
22	0	0	2	100
23	0	0	2	100
24	0	0	2	100
25	0	0	2	100
26	0	0	2	100
27	0	0	2	100
28	0	0	2	100
29	0	0	2	100
30	0	0	2	100



Section 2.3 Year 7

2018 Chemistry - Year 7 - Question Analysis

The tables below list all questions and the results of your students. indicates correct answers, indicates incorrect or blank answers. This report does not include sections 2.4 and 2.5 for this year level. These sections require cohorts of more than 5 students.

Question detail		Correct answer	MUNI, ARCHANA	PARHI, NIRJA	IND percentage correct
1	Y07Q01	C	✓	A	53
2	Y07Q02	D	✓	B	25
3	Y07Q03	D	✓	C	39
4	Y07Q04	A	✓	✓	68
5	Y07Q05	D	C	C	33
6	Y07Q06	B	✓	✓	48
7	Y07Q07	A	C	✓	47
8	Y07Q08	C	✓	A	46
9	Y07Q09	B	✓	✓	43
10	Y07Q10	A	✓	✓	28
11	Y07Q11	B	✓	✓	58
12	Y07Q12	C	A	A	31
13	Y07Q13	A	✓	✓	60
14	Y07Q14	A	✓	✓	67
15	Y07Q15	B	D	✓	37
16	Y07Q16	A	D	D	39
17	Y07Q17	C	A	D	53
18	Y07Q18	D	C	✓	38
19	Y07Q19	B	✓	✓	48
20	Y07Q20	D	C	B	31
21	Y07Q21	C	A	✓	23
22	Y07Q22	B	A	A	31
23	Y07Q23	B	A	A	25
24	Y07Q24	C	A	✓	30
25	Y07Q25	D	C	C	31
26	Y07Q26	B	✓	C	45
27	Y07Q27	C	✓	✓	41
28	Y07Q28	A	✓	D	38
29	Y07Q29	D	✓	✓	49
30	Y07Q30	C	✓	✓	57

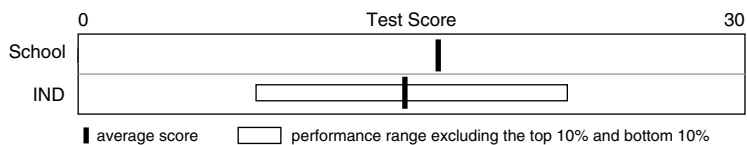
Division	Student Name	Score	Award	IND percentile	
46	I	MUNI, ARCHANA	17	Distinction	84
45	I	PARHI, NIRJA	16	Distinction	80

Section 2.1 Year 8

2018 Chemistry - Year 8 - Summary

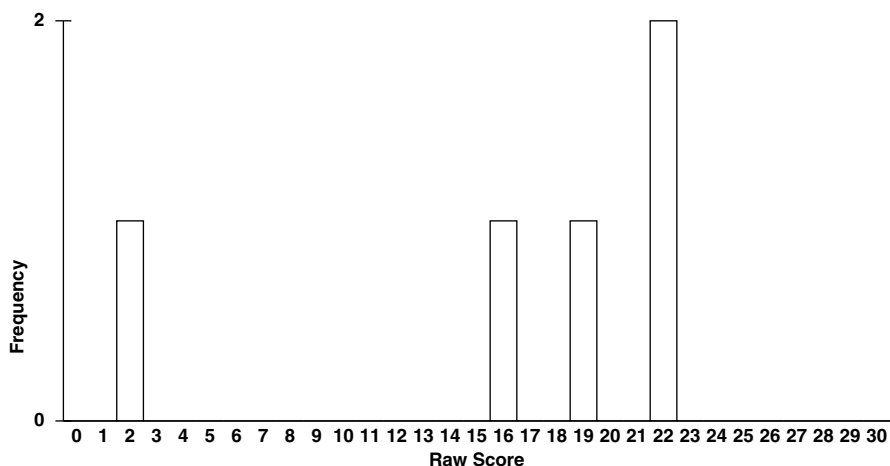
The graph below shows the performance of your Year 8 students in comparison to Year 8 students in IND, expressed in raw scores.

	School	IND
Number Of Questions	30	30
Participants	5	4073
Average Score	16.2	14.7
Standard Deviation	8.3	5.5
Highest Score	22	30



The table and graph below provide the frequency distribution of raw scores.

Score	Frequency	Percentage	Cumulative Frequency	Cumulative Percent
0	0	0	0	0
1	0	0	0	0
2	1	20	1	20
3	0	0	1	20
4	0	0	1	20
5	0	0	1	20
6	0	0	1	20
7	0	0	1	20
8	0	0	1	20
9	0	0	1	20
10	0	0	1	20
11	0	0	1	20
12	0	0	1	20
13	0	0	1	20
14	0	0	1	20
15	0	0	1	20
16	1	20	2	40
17	0	0	2	40
18	0	0	2	40
19	1	20	3	60
20	0	0	3	60
21	0	0	3	60
22	2	40	5	100
23	0	0	5	100
24	0	0	5	100
25	0	0	5	100
26	0	0	5	100
27	0	0	5	100
28	0	0	5	100
29	0	0	5	100
30	0	0	5	100



Section 2.3 Year 8

2018 Chemistry - Year 8 - Question Analysis

The tables below list all questions and the results of your students. indicates correct answers, indicates incorrect or blank answers. This report does not include sections 2.4 and 2.5 for this year level. These sections require cohorts of more than 5 students.

Question detail		Correct answer	JAIWAL, SHREY	KANSAL, HARSHIT	MAHAJAN, ARCHIE	KUMAR, VANSHIKA	SHARMA, PIYUSH	IND percentage correct
1	Y08Q01	C	✓	✓	A	✓	A	54
2	Y08Q02	D	B	B	✓	B	C	32
3	Y08Q03	D	✓	A	B	✓	B	40
4	Y08Q04	A	✓	✓	✓	✓	B	79
5	Y08Q05	D	C	C	C	C	B	40
6	Y08Q06	B	✓	C	✓	✓	C	54
7	Y08Q07	A	✓	✓	✓	C	B	52
8	Y08Q08	C	✓	✓	✓	✓	A	57
9	Y08Q09	B	✓	✓	A	A	C	53
10	Y08Q10	A	✓	B	✓	✓	D	38
11	Y08Q11	B	✓	✓	✓	✓	A	66
12	Y08Q12	C	✓	✓	✓	D	A	34
13	Y08Q13	A	✓	✓	✓	✓	C	68
14	Y08Q14	A	✓	✓	B	✓	C	72
15	Y08Q15	B	✓	✓	✓	✓	D	39
16	Y08Q16	A	D	✓	✓	C	C	48
17	Y08Q17	C	✓	✓	✓	B	B	63
18	Y08Q18	D	C	✓	✓	C	C	44
19	Y08Q19	B	A	✓	✓	✓	C	58
20	Y08Q20	D	✓	B	✓	C	✓	34
21	Y08Q21	C	✓	✓	B	✓	A	31
22	Y08Q22	B	A	✓	C	A	C	37
23	Y08Q23	B	A	A	D	C	A	25
24	Y08Q24	C	✓	B	✓	A	D	32
25	Y08Q25	D	C	✓	A	C	B	41
26	Y08Q26	B	✓	✓	A	✓	A	55
27	Y08Q27	C	✓	✓	D	✓	✓	48
28	Y08Q28	A	✓	✓	✓	✓	C	48
29	Y08Q29	D	✓	✓	✓	C	A	60
30	Y08Q30	C	✓	✓	✓	✓	B	67

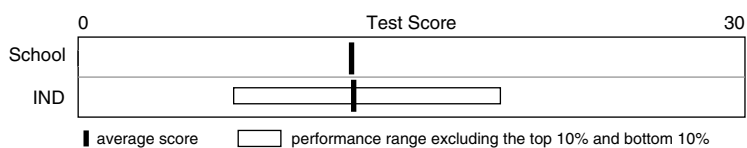
Division	Student Name	Score	Award	IND percentile	
44	I	JAIWAL, SHREY	22	High Distinction	91
43	I	KANSAL, HARSHIT	22	High Distinction	91
42	I	KUMAR, VANSHIKA	16	Credit	63
41	I	MAHAJAN, ARCHIE	19	Distinction	79
40	I	SHARMA, PIYUSH	2	Participation	0

Section 2.1 Year 9

2018 Chemistry - Year 9 - Summary

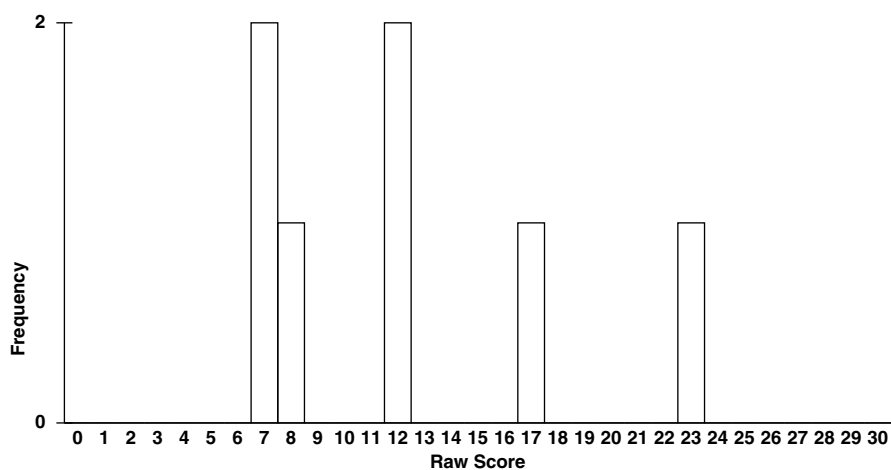
The graph below shows the performance of your Year 9 students in comparison to Year 9 students in IND, expressed in raw scores.

	School	IND
Number Of Questions	30	30
Participants	7	4924
Average Score	12.3	12.4
Standard Deviation	5.9	4.8
Highest Score	23	29



The table and graph below provide the frequency distribution of raw scores.

Score	Frequency	Percentage	Cumulative Frequency	Cumulative Percent
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	2	29	2	29
8	1	14	3	43
9	0	0	3	43
10	0	0	3	43
11	0	0	3	43
12	2	29	5	71
13	0	0	5	71
14	0	0	5	71
15	0	0	5	71
16	0	0	5	71
17	1	14	6	86
18	0	0	6	86
19	0	0	6	86
20	0	0	6	86
21	0	0	6	86
22	0	0	6	86
23	1	14	7	100
24	0	0	7	100
25	0	0	7	100
26	0	0	7	100
27	0	0	7	100
28	0	0	7	100
29	0	0	7	100
30	0	0	7	100



2018 Chemistry - Year 9 - Question Analysis

The table below lists all questions in order of difficulty.

Question detail		Question number	Correct answer	School percentage correct	IND percentage correct	Strength / weakness
Difficult Questions	Y09Q17	17	D	43	14	
	Y09Q04	4	D	0	16	
	Y09Q28	28	A	14	23	
	Y09Q05	5	A	43	28	
	Y09Q20	20	C	29	28	
	Y09Q09	9	A	43	29	
	Y09Q30	30	C	14	30	
	Y09Q25	25	D	43	30	
	Y09Q13	13	C	57	31	
	Y09Q16	16	B	29	33	
Easy Questions	Y09Q07	7	C	29	33	
	Y09Q11	11	B	14	33	
	Y09Q02	2	C	29	36	
	Y09Q21	21	C	29	37	
	Y09Q03	3	C	29	39	
	Y09Q19	19	B	57	43	
	Y09Q24	24	B	43	43	
	Y09Q15	15	C	43	47	
	Y09Q01	1	D	86	48	
	Y09Q26	26	A	57	49	
	Y09Q22	22	D	29	49	
	Y09Q10	10	D	57	50	
	Y09Q29	29	B	57	52	
	Y09Q14	14	C	29	53	
	Y09Q18	18	A	71	55	
	Y09Q23	23	A	43	55	
	Y09Q12	12	B	29	61	
Y09Q06	6	D	29	62		
Y09Q08	8	B	71	63		
Y09Q27	27	A	86	65		

Understanding Question Difficulty, Strengths and Weaknesses

Question difficulty is determined by the number of students in IND who answer the questions correctly. Strength in a question (indicated by 'S') means that students in your school performed significantly better on that question compared to the performance of students in IND. Weakness in a question (indicated by 'W') means that students in your school performed poorly in comparison. Strengths and weaknesses are not shown if fewer than 20 students from your school participated.

Section 2.4 Year 9

2018 Chemistry - Year 9 - Student Response Analysis

The table below provides the percentage of your students who chose each response option. The correct answer is the white, unshaded option.

Question detail	School percentage				Non attempt
	A	B	C	D	
1 Y09Q01	0	0	14	86	0
2 Y09Q02	0	43	29	29	0
3 Y09Q03	14	43	29	14	0
4 Y09Q04	14	0	86	0	0
5 Y09Q05	43	14	43	0	0
6 Y09Q06	29	29	14	29	0
7 Y09Q07	43	0	29	29	0
8 Y09Q08	0	71	14	14	0
9 Y09Q09	43	14	29	14	0
10 Y09Q10	14	14	14	57	0
11 Y09Q11	29	14	29	29	0
12 Y09Q12	14	29	43	14	0
13 Y09Q13	0	14	57	29	0
14 Y09Q14	43	0	29	29	0
15 Y09Q15	0	29	43	29	0
16 Y09Q16	14	29	43	14	0
17 Y09Q17	0	29	29	43	0
18 Y09Q18	71	14	14	0	0
19 Y09Q19	14	57	14	14	0
20 Y09Q20	29	29	29	14	0
21 Y09Q21	43	14	29	14	0
22 Y09Q22	29	0	43	29	0
23 Y09Q23	43	0	14	43	0
24 Y09Q24	29	43	14	14	0
25 Y09Q25	14	0	43	43	0
26 Y09Q26	57	14	0	29	0
27 Y09Q27	86	0	0	14	0
28 Y09Q28	14	29	43	14	0
29 Y09Q29	14	57	0	29	0
30 Y09Q30	29	57	14	0	0

Understanding Student Response Analysis

For each multiple-choice question there are four response options. The correct answer is the white, unshaded option. Incorrect options are called distractors and are shown in grey. Examining the distractors can give a useful insight into the type of assistance needed by students who have answered a question incorrectly. For example, if a number of students answered 'B' where the correct response was 'A', examining the distractor 'B' can help identify a lack of skill or understanding that led the students to the wrong response.

2018 Chemistry - Year 9 - Student Results - Division Order

The table below lists all students ordered by division (if provided) and then by name.

	Division	Student Name	Score	Award	School percentile	IND percentile
39	II	CHAUHAN, KUNAL	12	Participation	71	57
38	II	CHAUHAN, SHREYA	23	High Distinction	100	97
37	II	DHOUNDIYAL, ADITYA	7	Participation	29	14
36	II	DHOUNDIYAL, NIDHISH	8	Participation	43	22
35	II	G, SAGAR	7	Participation	29	14
34	II	RAO, ASHWIN	12	Participation	71	57
33	II	SRIVASTAVA, SPARSH	17	Distinction	86	85

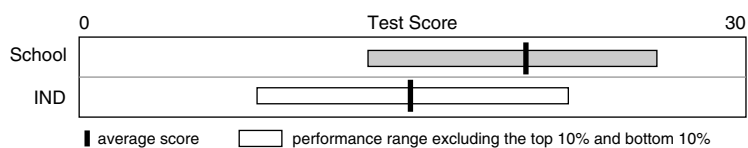
Student Reports

Individual student reports and certificates can be found at the end of this school report. The running number shown on the left is also printed in the bottom right corner of each student report so you can easily find the corresponding student report (numbers are in descending order).

2018 Chemistry - Year 10 - Summary

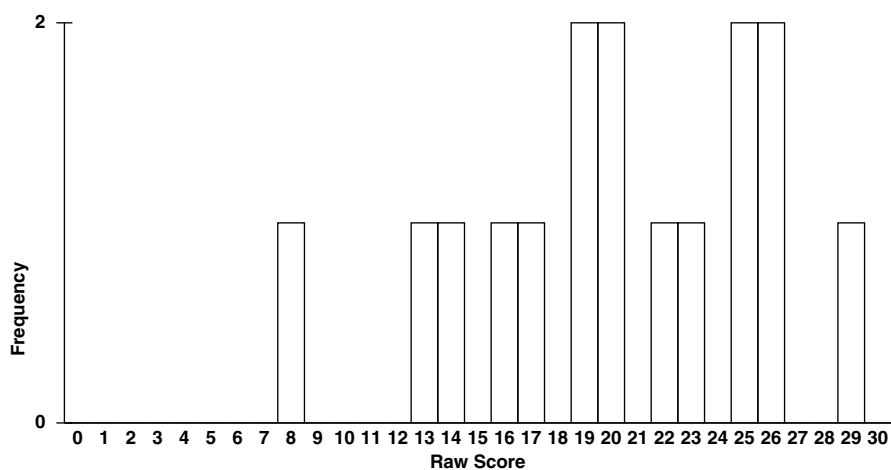
The graph below shows the performance of your Year 10 students in comparison to Year 10 students in IND, expressed in raw scores.

	School	IND
Number Of Questions	30	30
Participants	16	4799
Average Score	20.1	14.9
Standard Deviation	5.6	5.3
Highest Score	29	29



The table and graph below provide the frequency distribution of raw scores.

Score	Frequency	Percentage	Cumulative Frequency	Cumulative Percent
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	1	6	1	6
9	0	0	1	6
10	0	0	1	6
11	0	0	1	6
12	0	0	1	6
13	1	6	2	13
14	1	6	3	19
15	0	0	3	19
16	1	6	4	25
17	1	6	5	31
18	0	0	5	31
19	2	13	7	44
20	2	13	9	56
21	0	0	9	56
22	1	6	10	63
23	1	6	11	69
24	0	0	11	69
25	2	13	13	81
26	2	13	15	94
27	0	0	15	94
28	0	0	15	94
29	1	6	16	100
30	0	0	16	100



2018 Chemistry - Year 10 - Question Analysis

The table below lists all questions in order of difficulty.

Question detail	Question number	Correct answer	School percentage correct	IND percentage correct	Strength / weakness
Y10Q17	17	D	19	16	
Y10Q04	4	D	44	22	
Y10Q09	9	A	38	29	
Y10Q20	20	C	44	30	
Y10Q30	30	C	63	32	
Y10Q16	16	B	38	33	
Y10Q11	11	B	50	35	
Y10Q28	28	A	56	38	
Y10Q25	25	D	56	38	
Y10Q13	13	C	56	38	
Y10Q05	5	A	63	40	
Y10Q02	2	C	63	41	
Y10Q03	3	C	63	44	
Y10Q07	7	C	63	46	
Y10Q19	19	B	56	46	
Y10Q21	21	C	75	47	
Y10Q15	15	C	56	50	
Y10Q24	24	B	69	50	
Y10Q26	26	A	81	58	
Y10Q10	10	D	81	60	
Y10Q01	1	D	75	61	
Y10Q23	23	A	81	61	
Y10Q29	29	B	88	64	
Y10Q22	22	D	81	65	
Y10Q14	14	C	94	68	
Y10Q08	8	B	94	70	
Y10Q18	18	A	88	73	
Y10Q27	27	A	94	73	
Y10Q06	6	D	88	78	
Y10Q12	12	B	100	80	

Difficult Questions

Easy Questions

Understanding Question Difficulty, Strengths and Weaknesses

Question difficulty is determined by the number of students in IND who answer the questions correctly. Strength in a question (indicated by 'S') means that students in your school performed significantly better on that question compared to the performance of students in IND. Weakness in a question (indicated by 'W') means that students in your school performed poorly in comparison. Strengths and weaknesses are not shown if fewer than 20 students from your school participated.

Section 2.4 Year 10

2018 Chemistry - Year 10 - Student Response Analysis

The table below provides the percentage of your students who chose each response option. The correct answer is the white, unshaded option.

Question detail	School percentage				Non attempt
	A	B	C	D	
1 Y10Q01	13	6	6	75	0
2 Y10Q02	6	19	63	13	0
3 Y10Q03	0	31	63	6	0
4 Y10Q04	6	0	50	44	0
5 Y10Q05	63	13	19	6	0
6 Y10Q06	6	6	0	88	0
7 Y10Q07	6	13	63	19	0
8 Y10Q08	6	94	0	0	0
9 Y10Q09	38	19	13	31	0
10 Y10Q10	0	6	13	81	0
11 Y10Q11	25	50	6	19	0
12 Y10Q12	0	100	0	0	0
13 Y10Q13	13	13	56	19	0
14 Y10Q14	6	0	94	0	0
15 Y10Q15	0	6	56	38	0
16 Y10Q16	25	38	38	0	0
17 Y10Q17	0	19	63	19	0
18 Y10Q18	88	0	6	6	0
19 Y10Q19	38	56	6	0	0
20 Y10Q20	0	44	44	13	0
21 Y10Q21	19	0	75	6	0
22 Y10Q22	6	6	6	81	0
23 Y10Q23	81	13	0	6	0
24 Y10Q24	0	69	13	13	6
25 Y10Q25	0	6	38	56	0
26 Y10Q26	81	6	6	6	0
27 Y10Q27	94	6	0	0	0
28 Y10Q28	56	13	19	13	0
29 Y10Q29	6	88	6	0	0
30 Y10Q30	6	19	63	13	0

Understanding Student Response Analysis

For each multiple-choice question there are four response options. The correct answer is the white, unshaded option. Incorrect options are called distractors and are shown in grey. Examining the distractors can give a useful insight into the type of assistance needed by students who have answered a question incorrectly. For example, if a number of students answered 'B' where the correct response was 'A', examining the distractor 'B' can help identify a lack of skill or understanding that led the students to the wrong response.

2018 Chemistry - Year 10 - Student Results - Division Order

The table below lists all students ordered by division (if provided) and then by name.

	Division	Student Name	Score	Award	School percentile	IND percentile
32	II	AGRAWAL, SANA	20	Distinction	56	84
31	II	ARORA, ATIN	25	High Distinction	81	97
30	II	D KUMAR, ASHUTOSH	8	Participation	6	12
29	II	GHAVRI, PRATHAM	16	Credit	25	64
28	II	GOEL, PRAKHAR	22	High Distinction	63	91
27	II	JAIN, SAMARTH	13	Participation	13	43
26	II	PANDEY, ABHIJIT	23	High Distinction	69	94
25	II	PANDEY, PRATINAV	17	Credit	31	70
24	II	PRASAD, SARWAGYA	29	HD Excellence	100	100
23	II	SHARMA, DHRUV	14	Participation	19	50
22	II	SINGH, NITESH	19	Distinction	44	79
21	II	SINGH, SIDDHARTH	25	High Distinction	81	97
20	II	SINGH, TARUN AJAY	26	High Distinction	94	99
19	II	SINHA, RISHAV	19	Distinction	44	79
18	II	VAIBHAV, PRATYANSH	20	Distinction	56	84
17	II	WADWA, DIVYANSH	26	High Distinction	94	99

Student Reports

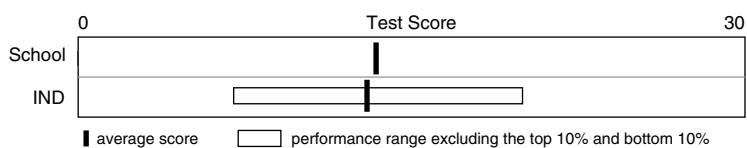
Individual student reports and certificates can be found at the end of this school report. The running number shown on the left is also printed in the bottom right corner of each student report so you can easily find the corresponding student report (numbers are in descending order).

Section 2.1 Year 11

2018 Chemistry - Year 11 - Summary

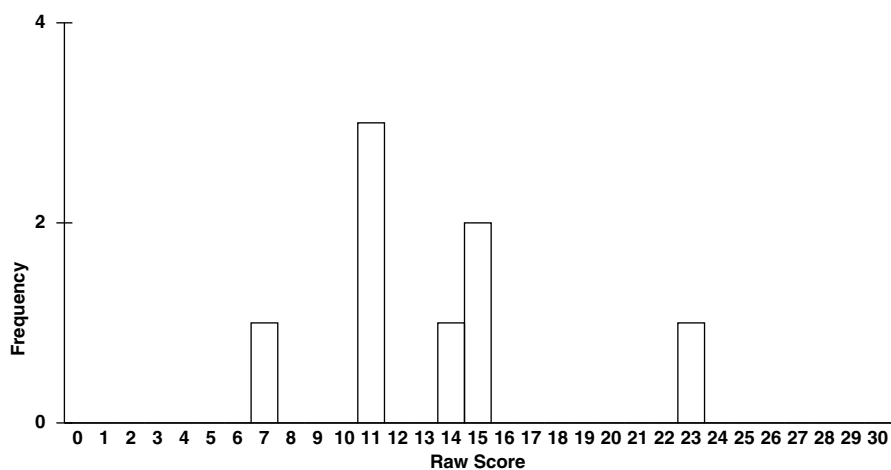
The graph below shows the performance of your Year 11 students in comparison to Year 11 students in IND, expressed in raw scores.

	School	IND
Number Of Questions	30	30
Participants	8	3738
Average Score	13.4	13.0
Standard Deviation	4.7	4.9
Highest Score	23	30



The table and graph below provide the frequency distribution of raw scores.

Score	Frequency	Percentage	Cumulative Frequency	Cumulative Percent
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	1	13	1	13
8	0	0	1	13
9	0	0	1	13
10	0	0	1	13
11	3	38	4	50
12	0	0	4	50
13	0	0	4	50
14	1	13	5	63
15	2	25	7	88
16	0	0	7	88
17	0	0	7	88
18	0	0	7	88
19	0	0	7	88
20	0	0	7	88
21	0	0	7	88
22	0	0	7	88
23	1	13	8	100
24	0	0	8	100
25	0	0	8	100
26	0	0	8	100
27	0	0	8	100
28	0	0	8	100
29	0	0	8	100
30	0	0	8	100



2018 Chemistry - Year 11 - Question Analysis

The table below lists all questions in order of difficulty.

Question detail		Question number	Correct answer	School percentage correct	IND percentage correct	Strength / weakness
Difficult Questions	Y11Q12	12	D	13	17	
	Y11Q30	30	C	25	24	
	Y11Q29	29	A	13	26	
	Y11Q19	19	B	25	27	
	Y11Q25	25	B	25	28	
	Y11Q21	21	D	25	30	
	Y11Q16	16	A	13	30	
	Y11Q15	15	A	25	30	
	Y11Q26	26	C	25	30	
	Y11Q18	18	C	13	33	
	Y11Q23	23	C	13	36	
	Y11Q28	28	D	63	37	
	Y11Q09	9	B	75	37	
	Y11Q27	27	C	50	38	
	Y11Q14	14	C	25	40	
Easy Questions	Y11Q24	24	A	25	42	
	Y11Q17	17	A	50	45	
	Y11Q22	22	C	75	45	
	Y11Q03	3	A	50	46	
	Y11Q02	2	D	50	49	
	Y11Q13	13	C	38	49	
	Y11Q20	20	A	75	52	
	Y11Q08	8	D	63	52	
	Y11Q11	11	B	88	54	
	Y11Q04	4	D	25	54	
	Y11Q07	7	B	63	57	
	Y11Q05	5	D	63	65	
	Y11Q10	10	B	63	70	
	Y11Q01	1	B	100	72	
	Y11Q06	6	A	88	87	

Understanding Question Difficulty, Strengths and Weaknesses

Question difficulty is determined by the number of students in IND who answer the questions correctly. Strength in a question (indicated by 'S') means that students in your school performed significantly better on that question compared to the performance of students in IND. Weakness in a question (indicated by 'W') means that students in your school performed poorly in comparison. Strengths and weaknesses are not shown if fewer than 20 students from your school participated.

Section 2.4 Year 11

2018 Chemistry - Year 11 - Student Response Analysis

The table below provides the percentage of your students who chose each response option. The correct answer is the white, unshaded option.

Question detail	School percentage				Non attempt
	A	B	C	D	
1 Y11Q01	0	100	0	0	0
2 Y11Q02	0	13	38	50	0
3 Y11Q03	50	25	25	0	0
4 Y11Q04	0	38	13	25	25
5 Y11Q05	13	0	25	63	0
6 Y11Q06	88	0	0	0	13
7 Y11Q07	25	63	13	0	0
8 Y11Q08	13	13	13	63	0
9 Y11Q09	13	75	13	0	0
10 Y11Q10	0	63	25	13	0
11 Y11Q11	0	88	13	0	0
12 Y11Q12	50	25	13	13	0
13 Y11Q13	25	25	38	13	0
14 Y11Q14	0	50	25	0	25
15 Y11Q15	25	25	0	38	13
16 Y11Q16	13	50	25	13	0
17 Y11Q17	50	0	25	13	13
18 Y11Q18	25	25	13	25	13
19 Y11Q19	0	25	13	63	0
20 Y11Q20	75	13	0	0	13
21 Y11Q21	13	25	38	25	0
22 Y11Q22	13	0	75	13	0
23 Y11Q23	13	25	13	50	0
24 Y11Q24	25	25	38	0	13
25 Y11Q25	50	25	0	13	13
26 Y11Q26	13	13	25	50	0
27 Y11Q27	0	50	50	0	0
28 Y11Q28	13	0	25	63	0
29 Y11Q29	13	13	38	13	25
30 Y11Q30	50	0	25	25	0

Understanding Student Response Analysis

For each multiple-choice question there are four response options. The correct answer is the white, unshaded option. Incorrect options are called distractors and are shown in grey. Examining the distractors can give a useful insight into the type of assistance needed by students who have answered a question incorrectly. For example, if a number of students answered 'B' where the correct response was 'A', examining the distractor 'B' can help identify a lack of skill or understanding that led the students to the wrong response.

2018 Chemistry - Year 11 - Student Results - Division Order

The table below lists all students ordered by division (if provided) and then by name.

	Division	Student Name	Score	Award	School percentile	IND percentile
16	III	BHANDARI, ROHAN	14	Credit	63	67
15	III	BYLOPPILLY, SIDDHARTH	11	Participation	50	44
14	III	GOYAL, ANSH	15	Credit	88	72
13	III	GUPTA, OJASH	15	Credit	88	72
12	III	MALHOTRA, ARCHIT	11	Participation	50	44
11	III	PANDEY, ANUSHKA	23	High Distinction	100	96
10	III	SEN, SONAI	7	Participation	13	12
9	III	SINGH, VYAKHYA	11	Participation	50	44

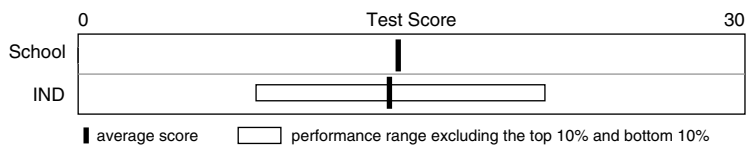
Student Reports

Individual student reports and certificates can be found at the end of this school report. The running number shown on the left is also printed in the bottom right corner of each student report so you can easily find the corresponding student report (numbers are in descending order).

2018 Chemistry - Year 12 - Summary

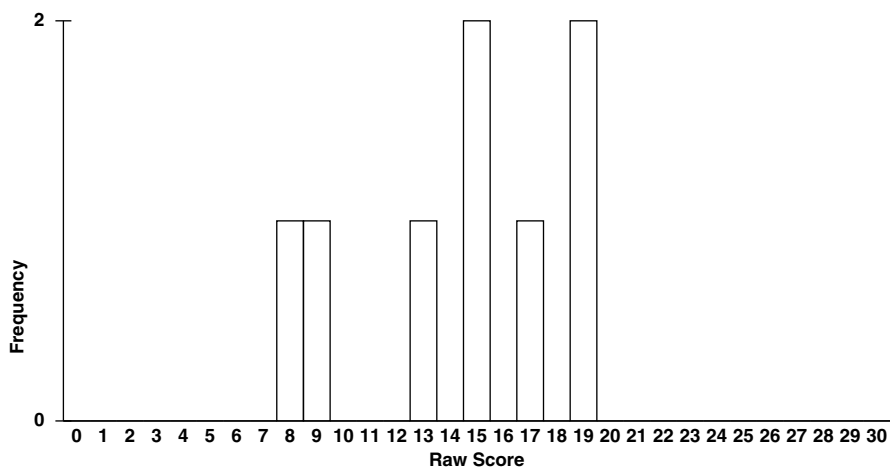
The graph below shows the performance of your Year 12 students in comparison to Year 12 students in IND, expressed in raw scores.

	School	IND
Number Of Questions	30	30
Participants	8	3092
Average Score	14.4	14.0
Standard Deviation	4.2	5.2
Highest Score	19	29



The table and graph below provide the frequency distribution of raw scores.

Score	Frequency	Percentage	Cumulative Frequency	Cumulative Percent
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	1	13	1	13
9	1	13	2	25
10	0	0	2	25
11	0	0	2	25
12	0	0	2	25
13	1	13	3	38
14	0	0	3	38
15	2	25	5	63
16	0	0	5	63
17	1	13	6	75
18	0	0	6	75
19	2	25	8	100
20	0	0	8	100
21	0	0	8	100
22	0	0	8	100
23	0	0	8	100
24	0	0	8	100
25	0	0	8	100
26	0	0	8	100
27	0	0	8	100
28	0	0	8	100
29	0	0	8	100
30	0	0	8	100



2018 Chemistry - Year 12 - Question Analysis

The table below lists all questions in order of difficulty.

Question detail	Question number	Correct answer	School percentage correct	IND percentage correct	Strength / weakness
Y12Q29	29	D	38	27	
Y12Q26	26	C	25	27	
Y12Q19	19	B	25	27	
Y12Q30	30	A	25	27	
Y12Q14	14	D	50	31	
Y12Q27	27	B	38	32	
Y12Q25	25	C	38	32	
Y12Q20	20	D	63	35	
Y12Q28	28	C	75	36	
Y12Q22	22	D	38	36	
Y12Q13	13	A	25	38	
Y12Q02	2	D	25	42	
Y12Q24	24	B	25	43	
Y12Q18	18	C	25	44	
Y12Q07	7	C	50	45	
Y12Q10	10	B	13	45	
Y12Q23	23	D	25	46	
Y12Q11	11	A	50	48	
Y12Q06	6	B	50	49	
Y12Q21	21	A	50	49	
Y12Q05	5	C	63	51	
Y12Q12	12	C	50	52	
Y12Q04	4	A	63	57	
Y12Q16	16	B	88	61	
Y12Q15	15	B	100	64	
Y12Q08	8	D	50	65	
Y12Q03	3	B	63	65	
Y12Q17	17	A	13	65	
Y12Q09	9	D	100	73	
Y12Q01	1	A	100	92	

Difficult Questions

Easy Questions

Understanding Question Difficulty, Strengths and Weaknesses

Question difficulty is determined by the number of students in IND who answer the questions correctly. Strength in a question (indicated by 'S') means that students in your school performed significantly better on that question compared to the performance of students in IND. Weakness in a question (indicated by 'W') means that students in your school performed poorly in comparison. Strengths and weaknesses are not shown if fewer than 20 students from your school participated.

Section 2.4 Year 12

2018 Chemistry - Year 12 - Student Response Analysis

The table below provides the percentage of your students who chose each response option. The correct answer is the white, unshaded option.

Question detail	School percentage				Non attempt
	A	B	C	D	
1 Y12Q01	100	0	0	0	0
2 Y12Q02	38	38	0	25	0
3 Y12Q03	0	63	25	13	0
4 Y12Q04	63	13	0	25	0
5 Y12Q05	13	13	63	13	0
6 Y12Q06	0	50	13	38	0
7 Y12Q07	0	38	50	13	0
8 Y12Q08	38	0	0	50	13
9 Y12Q09	0	0	0	100	0
10 Y12Q10	25	13	63	0	0
11 Y12Q11	50	13	25	13	0
12 Y12Q12	0	38	50	13	0
13 Y12Q13	25	50	25	0	0
14 Y12Q14	13	25	13	50	0
15 Y12Q15	0	100	0	0	0
16 Y12Q16	0	88	0	13	0
17 Y12Q17	13	13	63	13	0
18 Y12Q18	13	50	25	13	0
19 Y12Q19	13	25	38	25	0
20 Y12Q20	13	0	25	63	0
21 Y12Q21	50	38	13	0	0
22 Y12Q22	13	0	50	38	0
23 Y12Q23	63	0	13	25	0
24 Y12Q24	25	25	25	25	0
25 Y12Q25	13	50	38	0	0
26 Y12Q26	75	0	25	0	0
27 Y12Q27	50	38	0	13	0
28 Y12Q28	0	25	75	0	0
29 Y12Q29	13	38	13	38	0
30 Y12Q30	25	25	25	25	0

Understanding Student Response Analysis

For each multiple-choice question there are four response options. The correct answer is the white, unshaded option. Incorrect options are called distractors and are shown in grey. Examining the distractors can give a useful insight into the type of assistance needed by students who have answered a question incorrectly. For example, if a number of students answered 'B' where the correct response was 'A', examining the distractor 'B' can help identify a lack of skill or understanding that led the students to the wrong response.

2018 Chemistry - Year 12 - Student Results - Division Order

The table below lists all students ordered by division (if provided) and then by name.

	Division	Student Name	Score	Award	School percentile	IND percentile
8	III	AGARWAL, CHITWAN	15	Credit	63	66
7	III	BANERJEE, KSHITIJ	9	Participation	25	20
6	III	CHITRANSH, ANANYA	13	Participation	38	52
5	III	DUBEY, GAURAV	19	Distinction	100	84
4	III	JHA, KESHAV KUMAR	19	Distinction	100	84
3	III	PJ, BALAJI	17	Distinction	75	76
2	III	SINGH, MRITYUNJAY	15	Credit	63	66
1	III	SYED, HAIDER ALI	8	Participation	13	14

Student Reports

Individual student reports and certificates can be found at the end of this school report. The running number shown on the left is also printed in the bottom right corner of each student report so you can easily find the corresponding student report (numbers are in descending order).