Hands-on target setting -Workshop

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September 2012









Overview

Clearing the clutter Setting up the three worksheets Merging NCEA data & tidying the file Calculating 75th percentile (using the Box-Plot file) and creating Table sheet data Estimating credits (using Vlookup) Calculating credit target and success Calculating Y11 target – whole school, and subgroups (using pivot tables)





Clearing the clutter #1

Save your EDB with a new file name – such as "2012 Target Setting L1/Y11".

Label two new sheets – Tables, and Y11 Targets.







Clearing the clutter #2

- Delete all other sheets except the three we will work with – the EDB, Tables and Y11 Targets sheets.
- In the EDB sheet, retain students in Y9 cohorts 2007-2010 only – i.e., this year's Y11, and the previous three years of Y11 students. Delete all others, including anyone with a 'blank' in Y9 Est Cohort ("no more blanks"???).
- In the demographics section (i.e. no colour in heading), keep Master sort, NSN (first column only), ID, Y9 Est Cohort, Family name, First name, Gender, Ethnicity Level 1 Gp. Delete the other columns in this section, not Hide them. SAVE!!!!





No hidden columns!

EDB sheet

		А	В	С	D	E	F	G	Н
(Master Sort	NSN	ID Number	Est Y9 Cohort	Surname (Legal)	First Names (Legal)	Gender	Ethnicity - Level 1 Group
	1	-	-	-	-	~	-	-	-
	2	574	128338714	7259	2007	Surname1	First1	F	Asian
	3	656	128339381	7247	2007	Surname2	First2	F	Pasifika
	4	2556	136033899		2007	Surname3	First3	F	
	5	626	128338819	7101	2007	Surname4	First4	F	NZ Europear
	6	713	131668956	10416	2007	Surname5	First5	M	Maori
	7	877	128340955	7084	2007	Surname6	First6	M	NZ Europear
	8	629	128339019	7075	2007	Surname7	First7	F	NZ Europear
	9	738	131610147	8480	2007	Surname8	First8	M	Other
	10	597	128339552	7160	2007	Surname9	First9	F	Maori
	11	848	131508707	10440	2007	Surname10	First10	F	Pasifika
	12	610	122555359	11324	2007	Surname11	First11	F	Maori
	13	660	128339764	7137	2007	Surname12	First12	F	Pasifika
	14	687	128339685	7194	2007	Surname13	First13	M	Asian
	15	834	132009680	9424	2007	Surname14	First14	F	Maori
	16	691	128340529	7209	2007	Surname15	First15	M	Asian





EDB sheet: Clearing the clutter #3

- Choose which assessment data columns to use e.g. Y9T1 aRs, Y10 PAT, Y9 MidYis etc.
- Choose data columns with lots of data, and omit columns with no or little data (say, less than 30% of students).
- Do not retain a column if there are no data in that column for the current year's Y11.
 - For asTTle retain Level and Level Code delete Calendar year and Score
 - For PAT retain Stanine for Vocab, Comp, List and Mx delete other columns
 - For MidYis, retain Bands for Vocab, Mx, Non-Verbal, Skills and Overall – delete other columns

You can mix and match – some asTTle, some PAT etc. SAVED???





EDB sheet: You should now look something like this ...

	- I.		J		K		L		M		N		(D		Ρ		Q	R		S	Т	
	Y9 T1		Y9 T1		Y9 T2		Y9 T2		Y10 T1		Y10 T	1	Y10	T2	Y10	T2	Y8 T	2	Y8 T2		Y9 T1	Y9 T1	l
	aRs Le	vel	aRs Le	vel	aRs L	evel	aRs Le	vel	aRs Le	vel	aRs Le	evel	aRs	Leve	l aRs	Leve	l aMs		aMs		aMs	aMs	
			Code				Code				Code				Cod	е	Leve	l –	Level		Level	Level	
		_		_						_		_							Code	_		Code	
1		-		Υ.		Ψ.		-		•							r					r	
2																							
3																							
			ΔB		AC		AD		ΔF		ΔF		AG		ΔН								
Y	T1	Y9	T1	Y9	T1	Y1	0 T1	Y1	0 T1	Y1	0 T1	Y	9 T1	Y	10 T1								
PA	T	PA	T	PA	T List	PA	π.	PA	T	PA	AT List	PA	AT Mx	: P	AT M	x							
Vo	cab	Co	mp	Sta	anine	Vo	cab	Co	mp	Sta	anine	CI	ass	С	lass								
CI	ass	Cla	iss			Cla	ass	Cla	iss			St	anine	S	tanine	е							
St	anine 🔻	Sta	anine 🔻			Sta	anine 🝸	Sta	anine 💌		-			•		-							
			4.0		•	_			٨	c													
14	MidVia		MidVia	_	MidV	u ia	Mava	۱ ۵	Max	5													
lite	Vocab		My Ba	o und	Non\	is Iorba	Skille	5	Overa	s II													
nts d	Band		IVIX Da	inu	I Ban	d d	Band		Band														
^a	Dana				i Dan	u	Danu		Danu														
-		-		-	1		,		-	ſ	-												
0										-													



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EDB sheet: Clearing the clutter #3

Retain NCEA columns for 2009-2011. Delete NCEA data for all other years.

For NCEA 2009-2011, retain only Total Credits Achieved and L1 Credits Achieved for each of the three years – delete the other columns for those years.



SAVF!





EDB sheet: Preparing the asTTle data sets e.g., Y9 T1 aRs – Step 1

Sort the whole EDB sheet using the Y9 T1 aRs Level column.

	А	В	С	D	E	F	G	н		J	K
	Master	NSN	ID	Est	Surname	First Names	Gender	Ethnicity -	Y9 T1	Y9 T1	Y9 T2
	Sort		Number	Y9	(Legal)	(Legal)		Level 1	aRs Level	aRs Level	aRs Le
				Cohort				Group		Code	
1	•	¥	•	Y	¥	v	¥	· · · ·	•	_	
2	1832	125409548	11059	2011	Surname170	First1708	F	Maori	-		2B
3	1829	125408886	10096	2010	Surname132	First1323	M	Maori	<2B		2P
4	2333	129788370	11360	2011	Surname160	First1601	F	Pasifika	<2B		2B
5	2400	130546071	11193	2011	Surname172	First1729	M	Other	<2B		2P
6	2021	126296263	11393	2011	Surname175	First1759	M	Maor	<2B		3A
7	2373	130049336	11128	2011	Surname177	First1776	M	Asian	<2B		2P
8	2451	131566759	11225	2011	Surname180	First1803	M	Pasifika	<2B		3P
9	2524	133354587	11442	2011	Surname184	First1849	F	Maori	<2B		
10	1789	125402862	10274	2010	Surname109	First1093	M	Asian	2A		3B
11	2071	126564088	10055	2010	Surname109	First1095	M	Asian	2A		3P
12	1924	125829449	10377	2010	Surname110	First1100	M	Maori	2A		2A
13	2302	129497170	9453	2010	Surname111	First1111	F	Maori	2A		
14	2313	129498307	10239	2010	Surname112	First1127	M	Pasifika	2A		3B
15	2320	129499025	10113	2010	Surname113	First1132	F	Maori	2A		2A
16	2383	130411941	10260	2010	Surname113	First1135	F	Maori	2A		2A





EDB sheet: Preparing the asTTle data sets e.g., Y9 T1 aRs – Step 2

In the blank column to the right (e.g., Y9 T1 aRs Level Code), enter 2 for all students with <2B, 2A, 2B, 2P, enter 3 for 3A, 3B, and 3P, and so on. SAVE.

	A	В	С	D	E	F	G	н	1	J	
	Master Sort	NSN	ID Number	Est Y9 Cohort	Surname (Legal)	First Names (Legal)	Gender	Ethnicity - Level 1 Group	Y9 T1 aRs Level	Y9 T1 aRs Level Code	Ү а
1	-	-	-	-	-	-	-	-	-		
2	1832	125409548	11059	2011	Surname170	First1708	F	Maori	-		2
3	1829	125408886	10096	2010	Surname132	First1323	M	Maori	<2B	2	2
10	1789	125402862	10274	2010	Surname109	First1093	M	Asian	2A	2	з
37	2189	127173262	10344	2010	Surname148	First1484	M	Maori	2B	2	
37	1866	125412892	11110	2011	Surname183	First1837	F	Pasifika	2P	2	4
38	1758	125312578	10360	2010	Surname111	First1118	F	Asian	3A	3	4
92	2214	128086714	11254	2011	Surname185	First1857	F	Maori	3B	3	Ξ
93	1973	126274014	10078	2010	Surname108	First1089	F	Maori	3P	3	2
28	1895	125675931	11233	2011	Surname185	First1854	M	Maori	4A	4	4
29	2228	128820591	10178	2010	Surname111	First1115	F	NZ Europear	4B	4	1
09	1944	125991275	11350	2011	Surname183	First1838	F	Maori	4P	4	A
10	1916	125752498	10025	2010	Surname110	First1101	M	NZ Europear	5A	5	4
11	2520	133248187	10085	2010	Surname110	First1104	F	NZ Europear	5B	5	4
52	2118	126644447	11248	2011	Surname177	First1775	F	Other	5P	5	5
53	2271	128958019	10182	2010	Surname129	First1290	F	Pasifika	6B	6	4
54	1998	126280171	10235	2010	Surname135	First1350	F	Other	бР	6	4
55	574	128338714	7259	2007	Surname1	First1	F	Asian			





Repeat for each asTTle data set

Note: If using PAT Stanines or MidYis Bands, those preparatory steps are not necessary. You will be using the stanines or bands that you already have in the EDB.





EDB sheet: Sorting out the L1 NCEA data

Head up two new columns – Y11 Total Credits, Y11 L1 Credits – and sort the file by Est Y9 cohort.
For the 2007 cohort, copy/paste NCEA 2009 data (i.e., yellow cells). For the 2008 cohort, use NCEA 2010 (green), and for 2009 cohort use NCEA 2011 (blue).

1	Α	В	С	D	E	F	G	Н	Q	R	S	Т	U	Formula	X	Y	
	Master Sort	NSN	ID Number	Est Y9 Cohort	Surname (Legal)	First Name (Legal)	Gen der	Ethnicity - Level 1 Group	NCEA 09 Total Credits Achieved	NCEA 09 L1 Credits Achieved	NCEA 10 Total Credits	NCEA 10 L1 Credits Achieved 2010	NCEA 11 Total Credits Achieved	NCEA 11 L1 Credits Achieved	Y11 Total Credits	Y11 L1 Credits	
1	-	Ŧ	-		-	-	-	_	2009 -		2010	2010	2011	2011	-	₹ v	
2	1823	133270536	7105	2007	Surname 1	First name	м	European	63	63					63	63	
3	1614	116788138	7086	2007	Surname 1	First name	м	Europear	30	30)			\rightarrow	30	30	
4	391	133040700	7100	2007	Surname 1	First name	м	Maori	52	52	23	23	0	0	52	52	
98	114	135265436	8204	2007	Surname 1	First name	F	Maori	92	1					92	92	
99	258	130519948	8030	2008	Surname 5	First name	F	European			32	30	44	44	32	30	
100	345	130694111	8121	2008	Surname 1	First name	м	Maori			32	32			32	32	
228	659	132275900	10122	2008	Surname 1	First name	м	European			108	105	62	0	108	105	
229	145	137431614	10167	2008	Surname 4	First name	F	Asian			108	105	116	0	108	105	
230	696	129750586	9056	2009	Surname 5	First name	F	European					113	103	113	103	
231	549	129750969	9069	2009	Surname 1	First name	F	European					81	81	81	81	
258	637	125527095	9025	2009	Surname 1	First name	F	Maori					21	17	21	17	
308	400	132360851	11092	2009	Surname 1	First name	м	European					18	18	18	18	





EDB sheet: Tidying up the file

Sort the file by Y11 L1 Credits, and delete any students who have zero in this column – they will not help you to calculate Y11/L1 estimates. (Most likely have left the school between initial enrolment and Y11?)

	Α	В	C	D	E	F	G	H	Q	R	S	T	U	V	X	Y
	Master	NSN	ID	Est Y9	Surname	First	Gen	Ethnicity -	NCEA 09	NCEA 09	NCEA 10	NCEA 10	NCEA 11	NCEA 11	Y11 Total	Y11L1
	Sort	l	Number	Cohort	(Legal)	Name	der	Level 1	Total	L1 Credits	Total	L1 Credits	Total	L1 Credits	Credits	Credits
					(0)	(Legal)		Group	Credits	Achieved	Credits	Achieved	Credits	Achieved		
				_		(10.501)			Achieved	2009	Achieved	2010	Achieved	2011	_	
1	-	7	*	7	v	· · · · · ·		Ψ.	2009 *		2010 *		2011 🔷 💌	*		Ψ.
2	713	125529031	9099	2007	Surname 1	First name	М	Other							0	0
3	852	129750453	9047	2007	Surname 1	First name	М	European							0	0
4	559	132453045	9124	2008	Surname 1	First name	F	Maori							0	0
5	865	125530010	9097	2009	Surname 1	First name	М	Maori							0	0
6	158	129750359	9043	2009	Surname 1	First name	F	Maori							0	0
7	667	125598742	9014	2009	Surname 1	First name	М	European							0	0
8	1154	132861005	7041	2007	Surname 6	First name	F	European	2	2					2	2
9	215	128643218	6013	2007	Surname 1	First name	Μ	European	4	2	27	17	11	4	4	2
10	525	138069312	10180	2008	Surname 4	First name	F	Other			2	2			2	2
11	115	125528778	9105	2009	Surname 1	First name	F	Maori					2	2	2	2





Setting up the Tables sheet

- In Column A of the Tables sheet, head up "Level or Stanine or Band", and enter the numbers 1-9 going down, followed by A, B, C, D (if using MidYis). See next slide for an example.
- From the EDB sheet, copy the **heading rows** (not any data rows) of the Y9/10 data that you are using for target setting and paste in to the Table sheet (see next slide), noting the following:
 - asTTle copy the Level Code heading (for each data point e.g., Y9 T1 aRs Level Code)
 - PAT copy all of the stanine headings
 - MidYis copy all of the Band headings





Tables sheet: It should look something like this ...

	А	В	С	D	E	F	G	Н	1	J	K	L
	Level or	Y9 T1	Y9 T2	Y10 T1	Y10 T2	Y8 T2	Y9 T1	Y9 T2	Y10 T1	Y10 T2	Y9 T1	Y9 T1
	Stanine	aRs Level	aRs Level	aRs Level	aRs Level	aMs Level	PAT	PAT				
		Code	Vocab	Comp								
											Class	Class
1											Stanine	Stanine
2	1											
3	2											
4	3											
5	4											
6	5											
7	6											
8	7											
9	8											
10	9											
11												
12	A											
13	В											
14	C											
15	D											

	М	N	0	Р	Q	R	S	Т	U	V	W
	Y9 T1	Y10 T1	Y10 T1	Y10 T1	Y9 T1	Y10 T1	MidYis	MidYis	MidYis	MidYis	MidYis
	PAT List	PAT	PAT	PAT List	PAT Mx	PAT Mx	Vocab	Mx Band	NonVerba	Skills	Overall
	Stanine	Vocab	Comp	Stanine	Class	Class	Band		I Band	Band	Band
		Class	Class		Stanine	Stanine					
1		Stanine	Stanine								
2											
3											





Setting up the Y11 Targets sheet

Copy/Paste headings from EDB sheet to Y11 Targets sheet.

- Cut/paste 2010 cohort from EDB sheet to Y11 Targets sheet – see next slide. This leaves the '07, '08 and '09 cohorts on the EDB sheet.
- There may be some missing data do not worry at this stage. We will deal with that later.





Y11 Targets sheet, Step 1

	А	В	С	D	E	F	Н	l.	J	L	М	0	P R	
	Master	NSN	ID	Est Y9	Surname	First	Ethnicity -	Y9 T1	Y9 T1	Y10 T2	Y10 T2	Y9 T1	Y9 T1 Y10 T1	I
	Sort		Number	Cohort	(Legal)	Name	Level 1	aRs Level	aRs Level	aRs Level	aRs Level	aMs Level	aMs w	vel
						(Legal)	Group		Code		Code			
1	-	-	-	-	-	-	-	-	-	-	-		Missing	
2	249	125529389	10029	2010	Surname 1	First name	Maori	4B	4	5P	5	4B	data is	
3	346	129751526	10068	2010	Surname 1	First name	European	4B	4	4A	4	3A 🔶		
4	412	125603992	10076	2010	Surname (First name	Maori	4P	4	5P	5	3A	UK.	
5	383	125528765	10025	2010	Surname 1	First name	European	3P	3	4A	4	4P		/
6	445	129750545	10020	2010	Surname S	First name	European	4A	4	5P	5	4A	БА	
7	204	125528660	10014	2010	Surname 3	First name	European	4A	4	6B	6	4A	4 5A	
8	180	125530115	10030	2010	Surname 8	First name	Maori	4A	4	6P	6	4	4 5P	
9	296	129751010	10041	2010	Surname 1	First name	Maori	4B	4	57	5	4A	4 5A	
10	471	125599261	10098	2010	Surname 3	First name	Maori	4P	4	5P	5	4A	4 5A	
11	469	125599432	10104	2010	Surname 1	First name	Maori	4P	-			4P	4 5A	
12	704	125599167	10102	2010	Surname 9	First name	European	4P	4	6B	6	4P	t SP	
13	388	129750121	10006	2010	Surname 1	First name	European	4A	4	5A	5	5B	5 6P	
14	735	127170753	10023	2010	Surname (First name	European	3A	3	C		4P	4	
15	643	100311873	10153	2010	Surname 2	First name	Maori	4P	4			4B	4	
16	156	129750466	10016	2010	Surname 4	First name	European	4P	4	5B	5	3A	3 20	
17	584	125603831	10081	2010	Surname 1	First name	Maori	3A	3	4A	4	3A	3 4B	
18	749	125530291	10024	2010	Surname (First name	Maori	4B	4	4A	4	3A	3 4A	
19	154	130761656	10116	2010	Surname 4	First name	Pasifika	4B	4	5B	5	3A	3 4P	
20	685	125529639	10010	2010	Surname 2	First name	Maori	4P	4	5B	5	3A	3 4B	
21	620	125529917	10026	2010	Surname	First name	Maori	4B	4			4B	4 4A	





Set up Y11 Targets sheet for Credit Est

For every set of test data (e.g., the two columns for Y9 T1 aRs), add an extra column **on the right** – i.e., highlight the cell on the right of each set, then *Alt+1 then C* is the short-cut.

Label each new cell with same heading – Credit Est.



You can delete any sets if they prove to be empty – they might have had data for 2007-09 (e.g., Y10 T2 aRs above might be empty).





Lights, camera, action ... back to the EDB sheet

Hide all the columns from Y9 T1 aRs Level Code up to Y11 Total Credits.

This will keep the data you need in view and make working on the Upper Quartiles for Y9 T1 aRs easier.

	А	В	С	D	E	F	G	Н	I	L	X	Y
	Master	NSN	ID	Est Y9	Surname	First	Gen	Ethnicity -	Y9 T1	Y9 T1	Y11 Total	Y11 L1
	Sort		Number	Cohort	(Legal)	Name	der	Level 1	aRs Level	aRs Level	Credits	Credits
						(Legal)		Group		Code		
1	-	*	*	-	•	-	-	•		-	-	•
2	703	125527240	9080	2009	Surname 1	First name	м	Maori	2P	2	34	5
3	125	129750453	9047	2009	Surname 3	First name	м	European	2P	2	6	6
4	124	130122068	9133	2009	Surname 3	First name	м	Maori	2P	2	10	10
5	724	131563905	7133	2007	Surname 6	First name	м	Maori	2A	2	19	19
6	1614	115788138	7086	2007	Surname 1	First name	м	European	2P	2	30	30
7	258	130519948	8030	2008	Surname 5	First name	F	European	2B	2	37	30
8	302	132453045	9124	2009	Surname 4	First name	м	European	2P	2	- 55	30
9	345	130694111	8121	2008	Surname 1	First name	м	Maori	2B	2	32	32
10	522	130866760	8068	2008	Surname 1	First name	м	European	2P	2	54	35
11	169	125598742	9014	2009	Surname 1	First name	М	European	2A	2	47	47
12	391	133040700	7100	2007	Surname 1	First name	М	Maori	2P	2	52	52



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Sort by level

Sort the whole data file by Y9 T1 aRs Level Code ascending order

For all students who have Level 2, copy the data from the Y11 L1 Credits column

	А	В	С	D	E	F	G	Н		J	Х	Y
	Master	NSN	ID	Est Y9	Surname	First	Gen	Ethnicity -	Y9 T1	YV T1	Y11 Total	Y11 L1
	Sort		Number	Cohort	(Legal)	Name	der	Level 1	aRs Level	aRs Level	Credits	Credits
						(Legal)		Group		Code		>>
1	-	Ŧ	*	Ŧ	Ŧ	-	-	*	-		-	
2	703	125527240	9080	2009	Surname 1	First name	М	Maori	2P	2	34	5
3	125	129750453	9047	2009	Surname 3	First name	М	European	2P	2	6	6
4	124	130122068	9133	2009	Surname 3	First name	М	Maori	2P	2	10	10
5	724	131563905	7133	2007	Surname 6	First name	М	Maori	2A	2	19	19
6	1614	115788138	7086	2007	Surname 1	First name	М	European	2P	2	30	30
7	258	130519948	8030	2008	Surname 5	First name	F	European	2B	2	32	30
8	302	132453045	9124	2009	Surname 4	First name	М	European	2P	2	55	30
9	345	130694111	8121	2008	Surname 1	First name	М	Maori	2B	2	32	32
10	522	130866760	8068	2008	Surname 1	First name	м	European	2P	2	54	35
11	169	125598742	9014	2009	Surname 1	First name	М	European	2A	2	47	47
12	391	133040700	7100	2007	Surname 1	First name	М	Maori	2P	2	52	52





Using the Box-plot file for UQs

Open the box-plot file in your folder.

There are four sheets – we will use the Data sheet first, then the Plots sheet.

Click on the Data sheet.







Entering data in Data sheet

Paste the Y11 L1 Credits into Column A of the Data sheet for the Level 2 students.

Note: they do not have to be in numerical order

as these ones are.







Repeat the Lights, action, camera sequence

For all students who had Level 3, copy their Y11 L1 Credits, and paste in Column B.

Repeat for each of the Levels 4, 5 and 6 using Columns C, D and E respectively.

	F24	-	. (f_{x}		
	Α	В	С	D	E	F
1	5	17	31	83	89	
2	6	24	45	91	89	
3	10	34	55	92	90	
4	19	49	56	97	92	
5	30	50	57	99	94	
6	30	53	57	103	96	
7	30	55	58	107	99	
8	32	57	61	110	105	
9	35	59	61	110	105	
10	47	61	63	112	107	
11	52	63	64	117	110	
12	55	63	67		112	
13	56	65	67		113	
14	58	68	68		117	
15	63	68	68			(()
16	70	71	68			
17	73	72	70			
18	84	73	71			
19		74	72			
20		76	73			





The UQs from the Plots sheet

Click on the Plots sheet. This is similar to what you should see – the box plot for Level 2 on the left through to Level 6 on the right.





Scroll down and read off the UQ for each level – in green







Enter UQ in Tables sheet

Enter the UQ for each level in the Tables sheet



This means that based on the data available, students who were in Curriculum Level 2 for Reading on entry would find 57.5 credits a challenging but achievable target.





Tables sheet: Repeat for each dataset column: Sample Table for asTTle & PAT

	Α	В	С	D	E For	rmula Bar	G	Н	I	J	K	L	М	
	Level or	Y9 T1	Y9 T2	Y10 T1	Y10 T2	Y8 T2	Y9 T1	Y9 T2	Y10 T1	Y10 T2	Y9 T1	Y9 T1	Y9 T1	Y1(
	Stanine	aRs Level	aRs Level	aRs Level	aRs Level	aMs Level	PAT	PAT	PAT List	PA				
	or Band	Code	Vocab	Comp	Stanine	Voo								
											Class	Class		Cla
1											Stanine	Stanine		Sta
2	1										15.6	19.2	13.6	i -
3	2	16	19	23	44.25		22.5	19.25	34.5	43.2	25.2	28.8	18.9	1
4	3	43.75	48.5	52.5	51.5		41.75	40.5	43.2	48.25	33.3	37.8	28.2	!
5	4	63.75	62.1	67.75	72.5		68.5	65.5	70.5	79.8	41.25	44.85	34.9	1
6	5	80.5	79.6	85.1	89.2		77.5	78.5	80.25	90.25	40.75	44.35	65.25	1
7	6	82	83.5	91	93.8		85.9	82.8	91.6	101.3	55.4	61.6	58.65	
8	7										68.9	74.4	78.9	1
9	8										84.6	81	83.25	1
10	9										93.4	97	89.2	!
11														



Tables sheet: Sample table for MidYis

	B2		. 🕒	f*		
	Α	S	т	U	V	w
	Level or Stanine or Band	MidYis Vocab Band	MidYis Mx Band	MidYis NonVerba I Band	MidYis Skills Band	MidYis Overall Band
1						
2	1					
3	2					
4	3					
5	4					
6	5					
7	6					
8	7					
9	8					
10	9					
11						
12	A	88.8	95.6	99	86.48	99.2
13	В	82.6	88.4	72.4	80.3	82.4
14	С	68.9	75.7	70.1	66.58	72.2
15	D	33.8	44.6	23.6	31.5	50.25
16						





Y11 Targets sheet: Use Vlookup to enter estimated credits

In the Credit Est column, use Vlookup to transfer the UQ for Y9 T1 aRs Level Code, then repeat for each data set (Y9 T2 aRs, Y10 T1 aRs etc).

	ADD	RESS	• (= X	√ fa	=VLOOKUP(J11,Tables!A:B,2,FALSE)								
	А	В	С	D	E	F	G	Н	I	J	K		
	Master Sort	NSN	ID Number	Est Y9 Cohort	Surname (Legal)	First Name (Legal)	Gender	Ethnicity - Level 1 Group	Y9 T1 aRs Level	Y9 T1 aRs Level Code	Credit Est	Y1(aR	
1	¥	-	-	-	-	-	Ŧ	-	-	-	-		
9	683	129750241	10008	2010	Surname 2	First name	F	European	4P	4	136.25	5P	
10	487	125529519	10015	2010	Surname 4	First name	М	European	2P	2	85.5	3B	
11	220	129750481	10018	2010	Surname 4	First name	F	European	3P	3	,FALSE)	4P	
12	717	125529733	10012	2010	Surname	First name	F	European	5B	5	147.25	5A	
13	685	125529639	10010	2010	Surname 2	First name	F	Maori	4P	4	136.25	5B	





Y11 targets sheet: Estimated L1 Credits – average the Credit Est

Create column Est L1 Credits, and average the columns containing Credit Est. The Est L1 Credits is each individual student's target!

K ✔ f _x	f _x =average(K2,N2,Q2												
Н		J	К	L	M	N	0	Р	Q	BJ	BK	BL	
Ethnicity -	Y9 T1	Y9 T1	Credit	Y9 T2	Y9 T2	Credit	Y10 T1	Y10 T1	Credit		Est L1	Success	
Level 1	aRs Level	aRs Level	Est	aRs Level	aRs Level	Est	aRs Level	aRs Level	Est		Credits	Y/N	
Group		Code			Code			Code					
-	•	•	•	•	*		•	-	•	-	•	-	
Pasifika	2P	2	16	2A	2	19	2A	2	23		=average(K2,N2,Q2	
NZ Europear	2P	2	16	2A	2	19	2A	2	23	AVERAG	GE(number1,	[number2], [n	
Pasifika	2P	2	16	2B	2	19	2A	2	23				
Maori	<2B	2	16	2P	2	19	2A	2	23				
Docifiko				20	2	10	24	2	22				





Y11 Targets sheet: Calculate Success (Y) or Not (N)

V

Use IF statement to enter N (if less than 80) or

	Ι.												
	SUM		- (= ,× ,•	∕ <i>f</i> _x =IF	(BK251<80	,"N","Y")							
	1	J	К		М	N	0	Р	Q	BJ	BK	BL	
	Y9 T1	Y9 T1	Credit	Y9 T2	Y9 T2	Creat	Y 10 T 1	Y10 T1	Credit		Est L1	Success	
	aRs Level	aRs Level	Est	aRs Level	aRs Level	Est	aRs Level	aRs Level	Est		Credits	Y/N	
		Code			Code			Code					
1	-	•	-	-	-	-	-	-	-	-	-	T	
250	4A	4	63.75	4P	4	62.1	5P	5	85.1		70	Ν	
251	3B	3	43.75	4P	4	62.1	5P	5	85.1		64	N","Y")	
252	5B	5	80.5	5B	5	79.6	5P	5	85.1		82	Y	
253				4A	4	62.1	6B	6	91		77	N	
254	5P	5	80.5	5B	5	79.6	6B	6	91		84	Υ	
255	5P	5	80.5	5B	5	79.6	6B	6	91		84	Υ	
256	5P	5	80.5	5B	5	79.6	6B	6	91		84	Υ	
257	4P	4	63.75	5B	5	79.6	6B	6	91		78	Ν	
258	3P	3	43.75	2A	2	19					31	Ν	

Alternatively you can sort the whole file by Est L1 Credits, and enter N or Y as appropriate.





Y11 Targets sheet: Calculate whole school Y11 target – counting estimated successes

At the bottom of the dataset, count number of Y and number of N

	SUM \neg \bigcirc \land \checkmark f_x =COUNTIF(BL2:BL325,"Y")													
	L	М	N		0	Р	Q	BJ	БK	BL	E			
	Y9 T2 aRs Level	Y9 T2 aRs Level Code	Credit Est	ł	Y10 T1 aRs Level	Y10 T1 aRs Level Code	Credit Est		Est L1 Credits	Success Y/N				
1	-	-		•	-	-	-	-	-	*				
321									16	N				
322									16	N				
323									16	N				
324									16	N				
325									16	N				
326														
327									Υ	325,"Y")				
328									N					





Y11 Targets sheet: Calculating whole school Y11 target – as percentage (whew, you've finally got there!)

Convert to percentage – this gives your evidencebased Y11 whole school target (in this case, 69.4%). Done!





Sub-group targets – using Pivot Tables

Gender: Use Y11 Targets data from Gender column and Success column and create Pivot Table to calculate estimated targets for Females and Males.

Ethnicity: Use data from Ethnicity Level 1 Gp column and Success column to calculate estimated targets for each ethnic sub-group.

Reminder: you need to delete any unlabelled columns in the sheet before attempting to create/insert a pivot table.



Y11 Targets sheet: Sample Pivot Table - Ethnicity

Note: one student without ethnicity in file – fix and re-run?

Table can be converted to percentage of row to obtain Ethnicity targets – see notes from first workshop – or as shown.

	BN	BO	BP	BQ	BR	BS	BT	BU	-	PivotTable Field List 🛛 👻 🗙
									=	Choose fields to add to report:
										Master Sort
	v	-	-	-	-	-	-	-		■ NSN
-	Count of Surname (Legal)	Column Labels 🔻								ID Number E
	Row Labels	N	Y	(blank)	Grand Total		Percent of row			Est Y9 Cohort
	Asian	13	33	(,	46		71.7%			Surname (Legal)
	Maori	39	85		124		68.5%			Gender
	NZ European	21	40		61		65.6%			Ethnicity - Level 1 Group
	Other	3	9		12		75.0%			Y9 T1 aRs Level
	Pasifika	23	57		80		71.3%			Y9 T1 aRs Level Code
	(blank)		1		1					Credit Est
	Grand Total	99	225		324					Y9 T2 aRs Level
										Y9 T2 aRs Level Code
										V10 T1 aPs Level
										Drag fields between areas below:
										Report Filter Column Labels
										Success Y/N
										Row Labels Σ Values
										Ethnicity - Le 🔻 Count of Sur 🔻



'New' Y11 students (i.e., students with no Y9/10 data)

What to do for students for whom you cannot estimate a target because they have no data (e.g., new to school, skipped all Y9/10 assessments, ...)?

Some possibilities (any others?):

- Ignore use the percentage success calculated above, and leave it at that (i.e. school target is 69.4% as calculated, and that now includes 'new' Y11 students).
- Look back at three years of NCEA data how did 'new' students perform at L1 NCEA? Set target at 75th percentile of these results for those students.





Uses for these targets

MoE "charter" - early each year

Compare with past actual performance (i.e., variance report) – & with previous method of target setting for charter

Compare with estimated total credits in traffic lights exercise

Share/discuss with teachers/deans – allow adjustment ... but only upwards

Use to track actual individual (& group/sub-group) performance against target

Allocating resources early on for those in the "bubble" – between X and 80 (you decide on value of X)



Targets for L2, L3 and multi-level study

Less straight-forward? Some possible options:

- L2 as for L1, but include L1 credits as additional column (you need to recode the data into blocks of 10 credits e.g., 1-9, 10-19, 20-29, etc.)
- L3 as for L2, adding L2 credits (recoded as above)
- Multi-level study decide on what data to include, and what is the outcome measure (e.g., Total Credits, which take into account multi-level achievement, instead of L2 credits only)





Robustness of targets

- The more data you have i.e., usable datasets with minimal missing student data in each set the more robust the estimates for target setting.
- Cannot fix data issues from the past (e.g., lack of data, large proportion of students missing key indicator assessments, inaccessible data etc.), but do you need to work on that for the future? How?
- Every student "succeeds"? (i.e. by setting 75th percentile, everyone's estimate exceeds 80). Set the bar at 70th percentile or 65th percentile – these are available in Box-Plot.
 - Now, is there better alignment with actual results, yet the targets are still challenging and achievable?