

Data and Evidence to Impact Student Learning

Wesley College, Melbourne



Context

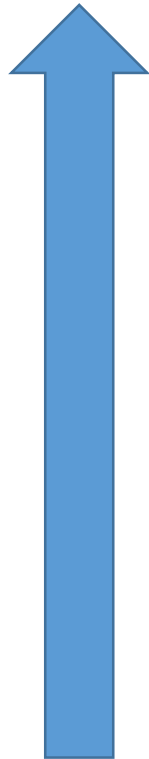
- 3 metropolitan campuses
- Year 9 campus in Clunes
- Studio School Yiramalay
- 3 outdoor education sites in Victoria
- 3,500 students
- 780 staff, 650 teachers
- Largest IB provider in Australia.

Wesley College Institute

Responsible for:

- curriculum,
- capacity building,
- research and evaluation,
- libraries,
- technologies and digital practice,
- what's next

The Data Enabled School: A school that is well equipped to handle operating in a data rich environment



Investment in Professional Learning

Staff, across all levels of the school, appropriately trained to use available data to drive their driven decision making practices.

Structured Learning Analytics

Clear and planned uses of evidence and data with possible interventions documented as well as capacity for ad hoc data analysis on an as needs basis.

Data Infrastructure

Resources to facilitate simple data collection and timely delivery of data to the various users.

Data Vision

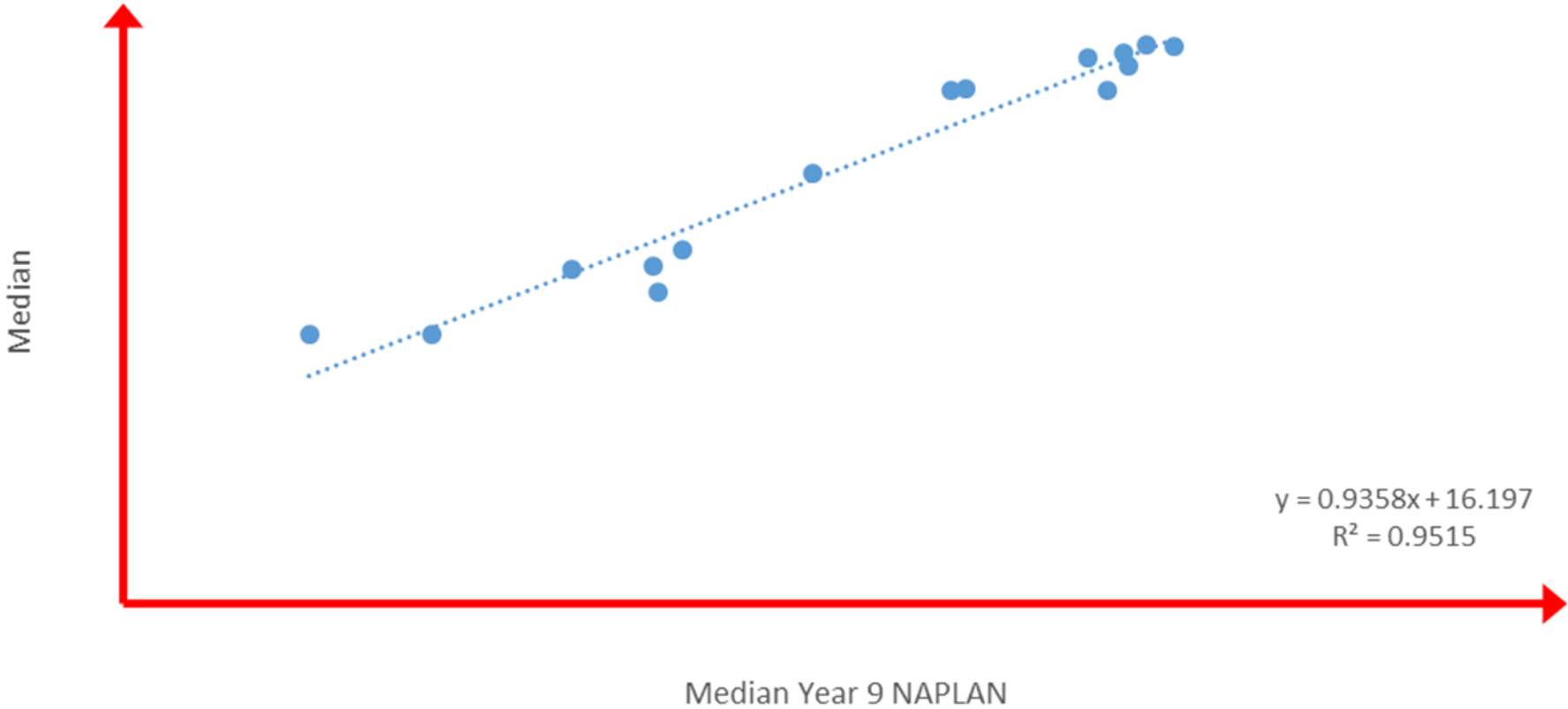
A clear vision of a school with data driven decision making at its core.

Example applications

- Identifying potential student under performance.
- Identifying areas for intervention.
- Evaluating impact of programs / instruction.
- Setting and evaluating KPIs.

Change Indicators					Year 8 Semester 1 Summary			Year 7 Semester 2 Summary			Year 7 NAPLAN					Year 5 NAPLAN					Year 3 NAPLAN				
ID	Gender	ΔGPA	ΔBPA	ΔVar	GPA	Var	BPA	GPA	Var	BPA	R	W	S	G	N	R	W	S	G	N	R	W	S	G	N
155014	M	➡ 0.1	⬇ 0.5	⬆ -0.5	4.5	0.5 *	2.9	4.4	1.1	2.4	36	33	27	59	82	34	22	29	54	35	45	64	20	56	46
136628	M	➡ 0.2	⬇ 0.3	➡ -0.1	4.6	0.7	2.7	4.4	0.8	2.5	36	78	59	59	75	34	71	69	73	30	83	33	50	25	35
149192	M	➡ 0.1	➡ 0.2	➡ 0.1	4.3	1.0	2.6	4.3	0.9	2.4	63	53	6	51	21	81	5	17	44	40	68	2	29	39	29
147097	F	➡ 0.2	➡ 0.2	➡ -0.1	5.6	0.7	3.1	5.4	0.8	2.9	21	90	59	23	28	19	71	86	36	12	40	64	76	47	12
137229	M	➡ -0.2	➡ 0.1	➡ 0.2	4.4	0.9	2.7	4.6	0.7	2.6	83	59	48	82	36	29	50	17	36	12	51	11	20	56	35
138975	F	⬇ -0.3	➡ 0.1	⬇ 0.2	5.1	0.9	2.8	5.4	0.7	2.7	67	72	38	51	33	86	43	40	36	7	62	43	50	39	35
149660	F	⬆ 0.4	➡ 0.1	⬆ -0.2	6.4	0.7	3.2	6.0	0.9	3.1	89	72	70	75	99	94	71	75	98	93	91	54	56	75	95
158969	M	⬆ 0.4	➡ 0.1	➡ 0.0	5.6	0.9	2.8	5.2	0.9	2.7	99	95	99	93	93	100	97	99	95	98	97	54	98	98	100
147828	M	⬇ -0.4	➡ 0.1	⬆ -0.5	3.8	0.7 *	2.8	4.2	1.2	2.8	45	4	19	51	47	15	28	21	28	35	25	4	8	25	2
151825	M	➡ 0.0	➡ 0.1	➡ 0.0	4.1	0.8	2.4	4.1	0.7	2.3	67	46	38	17	64	6	43	45	7	35	17	17	56	14	24
136446	F	⬇ -0.4	➡ 0.0	➡ 0.0	6.0	0.5	3.2	6.4	0.5	3.2	86	72	32	99	96	91	99	29	89	87	62	43	45	84	97
137670	F	⬇ -0.4	➡ 0.0	➡ -0.1	6.2	0.4	3.2	6.6	0.5	3.2	99	93	93	97	93	100	97	96	95	99	97	99	96	92	88
150214	F	⬇ -0.3	➡ 0.0	⬇ 0.3	3.6	1.4	2.2	3.9	1.1	2.2	18	22	19	36	19	11	43	17	21	1	3	7	3	1	24
147262	F	⬆ 0.2	➡ 0.0	⬇ 0.4	5.2	0.8	2.7	5.0	0.5	2.7	49	78	95	67	70	54	83	86	73	57	94	33	84	75	97
146646	F	⬇ -0.4	➡ 0.0	➡ -0.1	5.0	0.9	3.1	5.4	0.9	3.1	28	72	48	67	41	34	43	69	64	22	45	33	56	56	24
156426	F	➡ 0.1	➡ 0.0	⬇ 0.5	4.6	1.0	3.0	4.5	0.5	3.0	18	72	70	36	30	15	35	69	15	4	68	2	80	25	35
152520	F	⬇ -0.5	➡ 0.0	➡ 0.0	5.8	0.7	3.1	6.3	0.6	3.1	91	93	75	100	92	99	91	86	98	96	88	97	84	98	88
136480	M	➡ 0.0	➡ 0.0	⬇ 0.2	5.6	0.7	2.9	5.6	0.5	2.9	100	96	93	82	82	100	71	99	95	78	99	64	76	84	92
172803	F	➡ -0.1	➡ 0.0	➡ 0.0	5.0	1.0 *	2.8	5.1	1.0	2.8	32	46	19	51	44	34	35	21	36	30	3	54	39	19	1
139820	M	⬇ -0.5	➡ 0.0	⬇ 0.4	3.2	1.4	1.9	3.7	0.9	2.0	12	4	9	2	30	2	8	5	4	18	4	2	5	1	9
138237	M	⬇ -0.6	➡ -0.1	➡ 0.0	5.1	1.1	3.1	5.7	1.1	3.2	63	78	48	82	64	68	28	25	15	78	45	7	20	11	65
147945	M	➡ 0.0	➡ -0.1	⬆ -0.6	5.4	0.5	2.9	5.5	1.1	2.9	96	87	95	100	98	54	94	96	82	96	45	33	90	56	78
151401	F	⬇ -0.2	➡ -0.1	⬇ 0.2	5.8	0.8	2.8	6.0	0.6	2.9	98	87	99	97	97	100	87	96	100	99	99	64	96	100	95
144906	F	⬇ -0.4	➡ -0.1	⬆ -0.3	5.2	0.7	2.9	5.6	1.0	3.0	86	59	70	93	47	75	77	17	44	51	94	24	39	84	65
138617	F	⬇ -0.7	⬆ -0.2	➡ 0.1	4.4	0.9	2.9	5.1	0.7	3.2	45	59	83	29	33	47	94	63	54	6	13	24	50	39	12
144508	F	⬇ -0.8	⬆ -0.5	⬇ 0.5	3.3	1.4 *	1.3	4.0	0.9	1.8	32	53	59	36	23	86	50	63	54	10	97	33	71	56	40

Year 9 NAPLAN vs Year 12 ATAR



Data Sources

- Internal (summative, formative, academic, attitudinal)
- External (NAPLAN, ATAR, Study Score, ACER, Morrisby)

Software Solutions

- Implementing SEQTA.
- Investigating Tableau.
- Investigating Edifi.
- Investigating TrackOne Studio

Staff Capacity Building?

- Personalisation & differentiation.
- Professional Learning Model.
- Coaching / Mentoring.
- Targeted teacher development.
- Shape of the day.

Issues / Concerns / Challenges

- Lots of disparate data sources.
- Time consuming to clean.
- Lack of sustainability.
- Lack of data / assessment literacy.
- Lack of platform integration.
- Ongoing challenge of data into action.
- Poor visualisation of data.
- Costs and time requirement of staff develop.
- School organisation (i.e. shape of day)
- How do we hang this bauble with all the others?