



Data Management Sharing a Model of Practice

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Agenda

- Introduction
- The Theory
- The Analysis
- Value-Added Feedback Reports & Graphs
- Workshop
- Process in Saint Patrick's
- Other Issues





Goal:

To provide data that helps staff and the SMT to confidently identify the root of educational challenges and to track progress. This will enable staff and departments to more readily develop action plans that will have a positive impact on the students





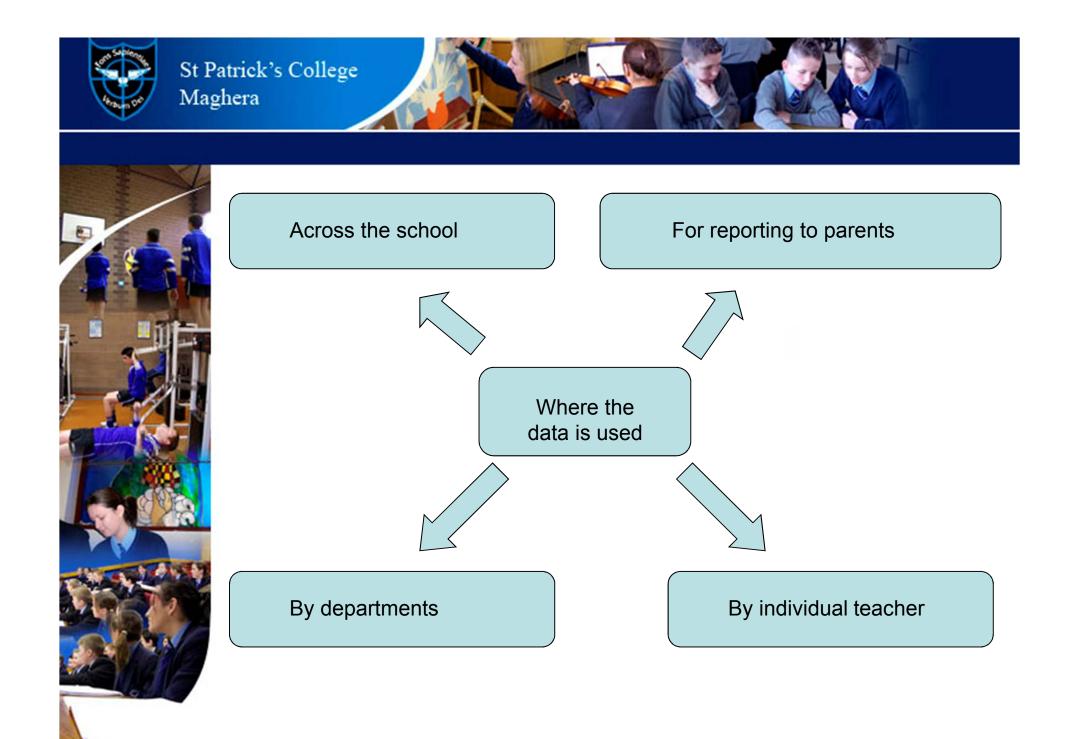
Data is a key driver as identified in ESAGS;

 Assessment and other data is used to effectively inform teaching and learning across the school and in the classroom and to promote improvement.

ESAGS

 Rigorous self-evaluation is carried out by teachers and the whole school, using objective data and leading to sustained self-improvement.

ESAGS







What the data is used for

- to inform student placement decisions
- to set targets and measure pupil progress in real time
- to identify pupils requiring support at subject level
- to identify pupils requiring support across a range of subjects
- to identify high achievers
- to identify areas for improvement in teaching and learning
- to identify and share areas of best practice





For this to happen the data sets used must

- 1. Provide reliable and valid predictors of future student achievement
- 2. Provide reliable measures of change over time
- 3. The teacher data inputs must be authentic and based on sound judgement





The Theory



Types of data, variances and reporting formats



Standard deviation

Value added

Target setting

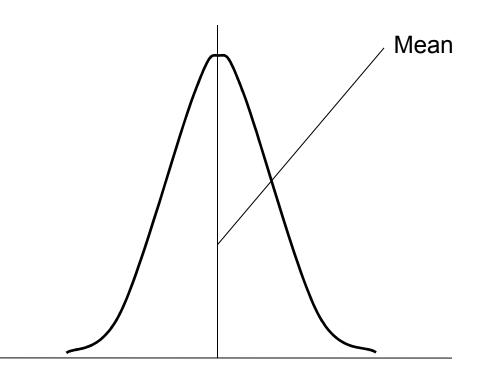




- Standard deviation shows you how tightly all the results are clustered around the mean.
- A graph of the normal distribution shows how the standard deviation is spread
- For a small standard deviation the normal distribution graph will be narrow.
- For a large standard deviation the normal distribution graph will be spread out.



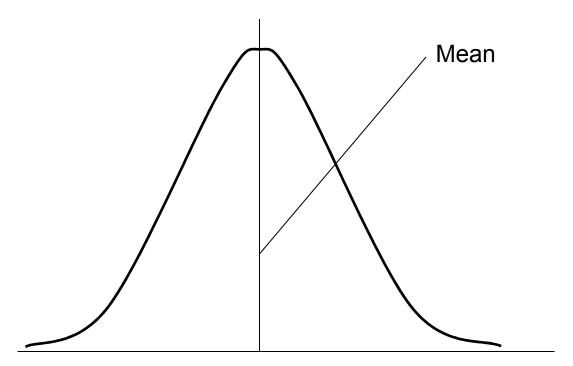




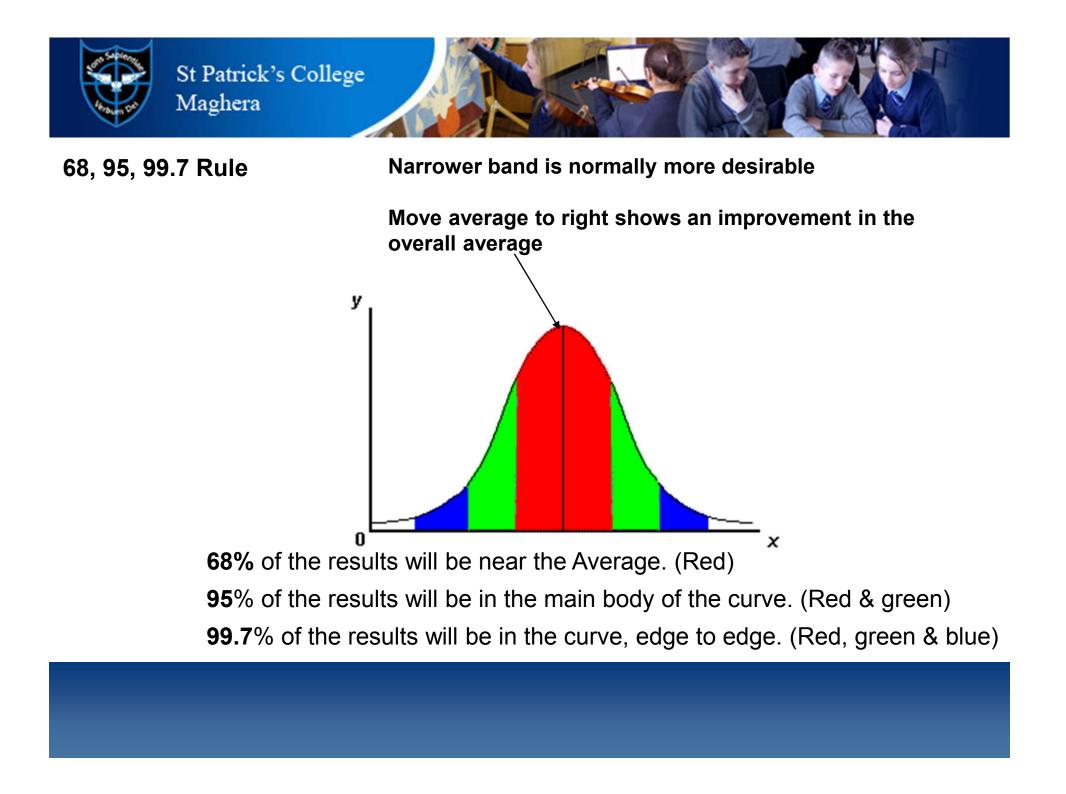
Smaller standard deviation the normal distribution graph will not be spread out.







Larger standard deviation the normal distribution graph will be spread out.





- Why this shape?
 - If a process is in control you will always get this shape.
- Why is this important to us?
 - It allows us to use standardised tests like MidYIS, Yellis and ALIS to benchmark our pupils.



- Standard deviation is important as any process in control will give you this shape of graph.
- There are numerous reasons for having values far from the mean value and these can be school specific. For example;

a grammar school should have a narrower graph then an all ability school

there could be errors and bias leading to inaccuracies in the results (e.g. small classes, large classes)

 Using a large data set, like YELLIS, reduces errors and bias and allows you to confidently predict future grades and measure value added.

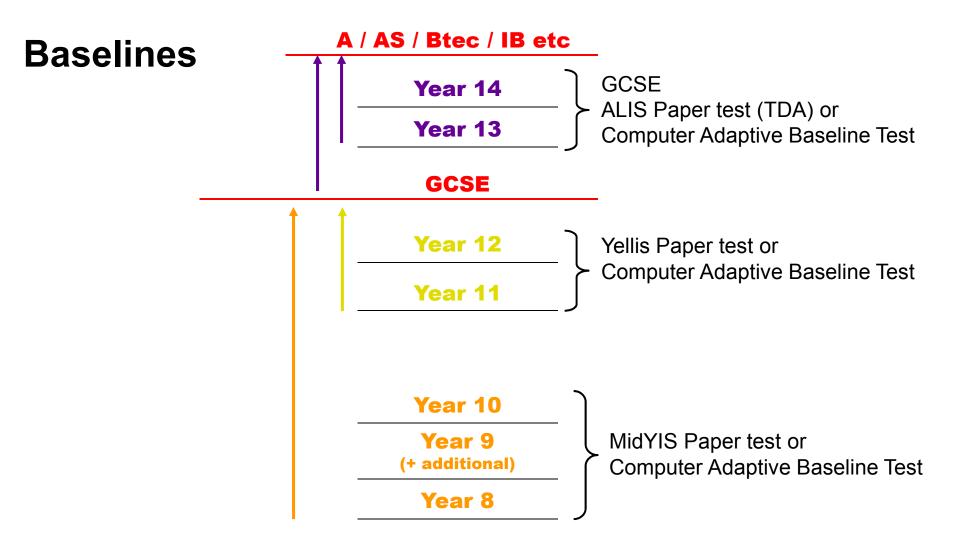






The Analysis

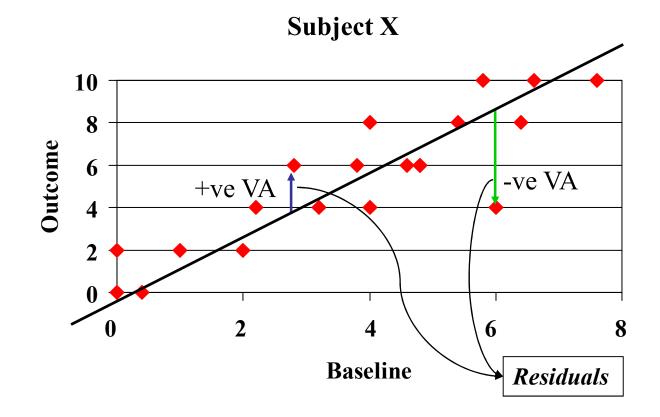






Linear Least Squares Regression

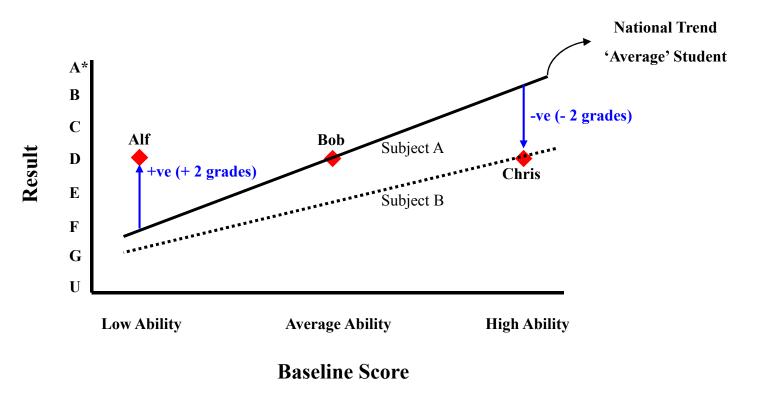






Measuring Value-Added – An Example



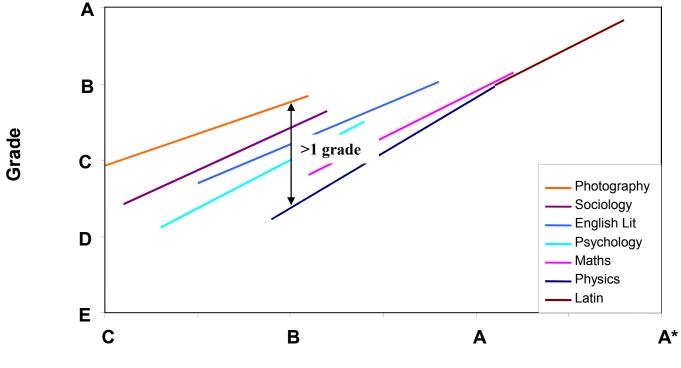


The position of the national trend line is of critical importance



Some Subjects are More Equal than Others.... A-Level (ALIS)



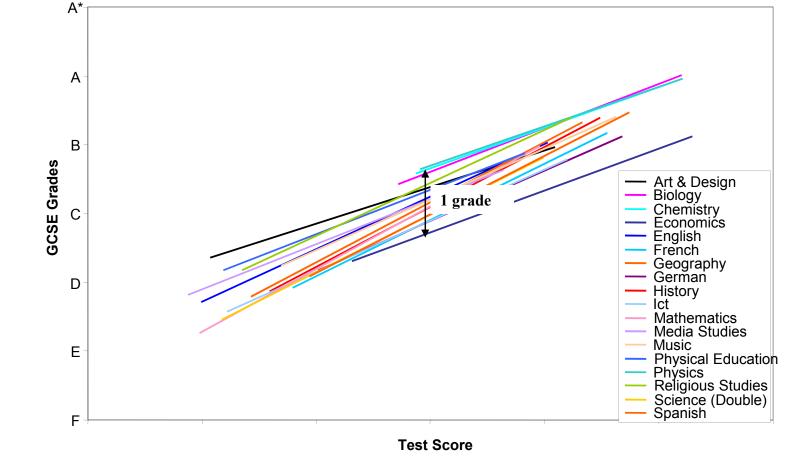


Average GCSE



Some Subjects are More Equal than Others.... GCSE (MidYIS or Yellis)









Good news:

When using MidYIS, Yellis, ALIS and FFT all the statistical work is completed for the school.

- Once the marksheets are set up in assessment manager the data is uploaded in the school a few days after the pupils have completed the tests
- Once the GCSE results are in, these are sent to CEM who manage MidYIS, Yellis and ALIS and they return a residual – value added score

Actual score – predicted score = value added

NB: this is given as a raw score as well as a standardised score. The standardised score is the one to use.





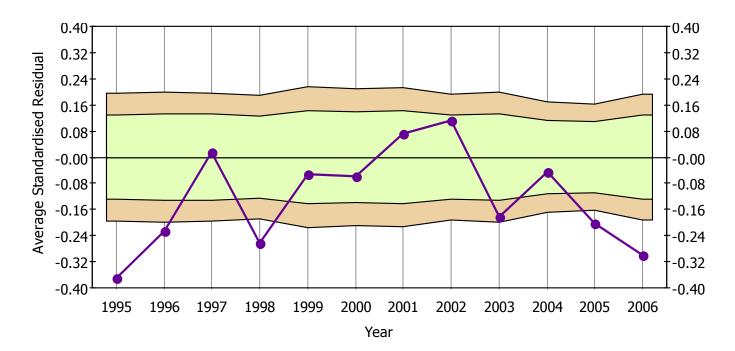
Value-Added Feedback Reports & Graphs



Value Added Feedback...

What is my score ? ----- does it matter ?

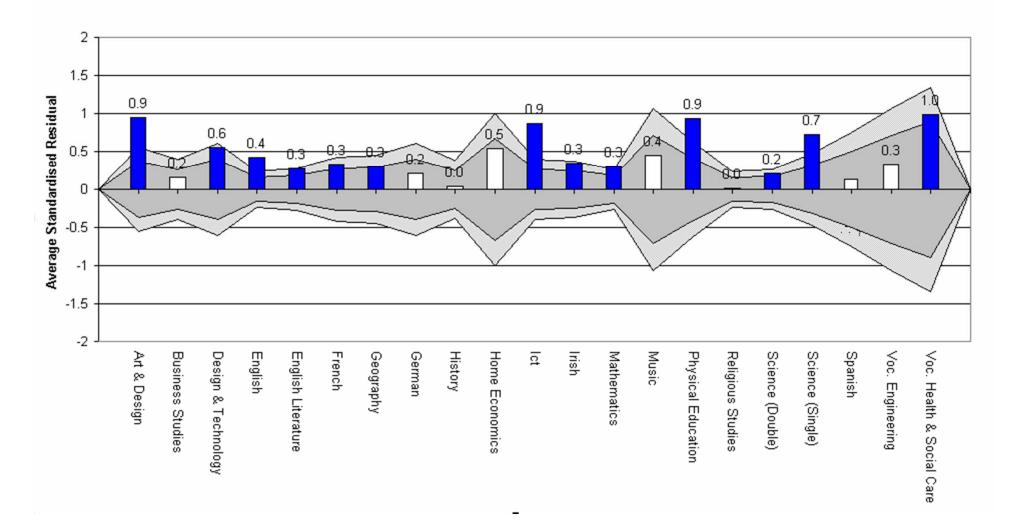
Statistical Process Control (SPC) Chart





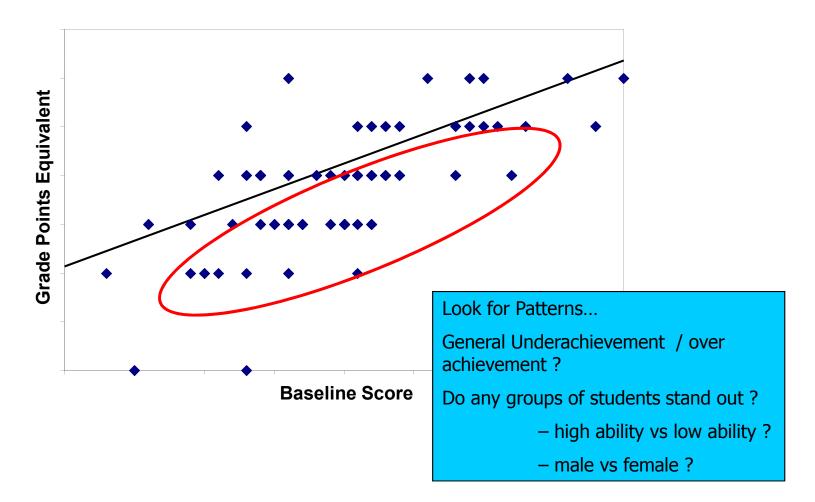


Subject Summary: Standardised Residual Graph





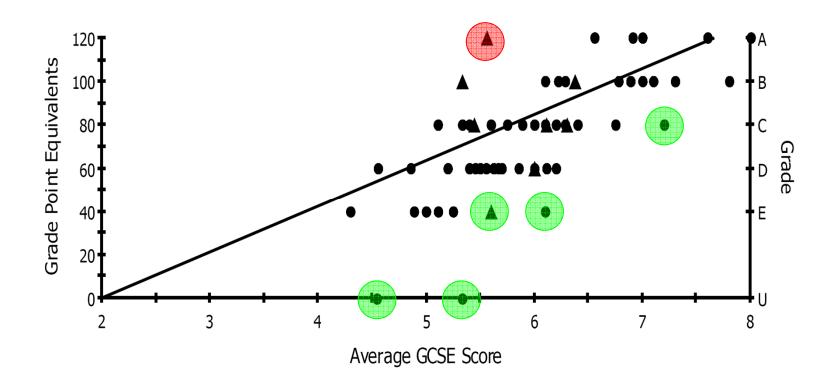
The Scatter Plot







Other things to look for...





Why did these students do so badly ?

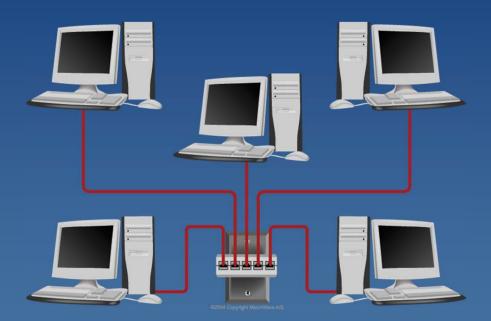
Why did this student do so well?

How did they do in their other subjects ?





Workshop





Workshop : Ranking

Criterion based marking verses Ranking





Ranking can be carried out using different methods.

For example,

- Top 10% get a grade A irrespective of marks, next 20% get a B and so on.
- By percentiles, top 25% in class, bottom 25% in class and so on.
- By position in class, 1st, 2nd, 3rd ...

Before looking at the reasons for using 'ranking', in groups look at the sample marksheets provided on the desks.

KS4 Marks	hee	t: U	sing	ј Мі	dyi	s an	d Y	ellis	s Da	ata							V	/ork	shc	op 2	: Sł	neet	1
Surname Forename																Biology March TL	Biology APRIL PG Year 12	Biology April TL	Biology MAY PG Year 12	Biology May TL	Biology JUNE PG Year 12	Biology June TL	
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Student 2	A/B	A	A	A	A	A	А	A	A	A*	A*	A*	A*	A	A	В	С	A	A			A	A
Student 3	В	A	A	В	в	D	D	D	D	С	С	С	С	С	С	С	С	С	С			A	A
Student 4	B/C	В	A	A	A	D	D	В	в	В	В	В	В	С	С	С	С	В	В			A	A
Student 5	A	A	A*	С	С	С	С	D	D	С	С	С	С	D	D	D	D	С	С		-	A	A
Student 6	В	В	В	В	В	U	U	в	в	С	С	С	С	D	D	D	D	С	С			В	В
Student 7	В	В	A	A	A	С	С	в	В	В	В	В	В	С	С	С	D	A	A			A	A
Student 8	B	A	A	A	A	D	D	В	в	В	В	В	В	В	в	В	D	A	A			A	A
Student 9	B/C	В	A	В	В	С	С	В	В	С	С	В	В	С	С	С	С	В	В			В	A
Student 10	В	В	В	В	В	С	С	В	в	A	A	В	В	С	С	С	D	В	В			В	В
Indicates the pupil is above or equal to their target grade Indicates the pupil is below their target grade Indicates the pupil is below their target grade Look at this marksheet Can you identify trends in relation to over or under achievement for individual students? Can you think of reasons for the results in Oct, Feb and March?																							
Can you think c	Can you think of reasons for the results in June?																						
Can you think c	Can you think of any ways to improve the usefulness of data from the marksheet?																						

A Level Marksheet: Using Fisher Family Trust Data																		۷	Vork	shc	op 2	: Sh	eet	2			
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Pupil 1	13A	A			A	A	14	28	29	19	8	В	84	A	A	83	A	A	84	A	A	78	В	В	69	С	C
Pupil 2	13B	В			С	A	14	28	29	19		B	77	В	в	75	В	В	86	A*	A	79	В	в	66	С	С
Pupil 3	13B	A			A	A	14	28	29		8	В	76	В	в	68	С	С	62	С	С	77	В	в	68	С	С
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Pupil 6	100	A	-	-	В	A	62	24	11			A	83	A	A	84	A	A	83	A	A	83	A	A		B	В
Pupil 7	13E		B	B	0		14	28	29			В	62	C	C	62	C	C	68	C	С	65	C	C	61 00	C et	C
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Criterion based marking is needed to assess the knowledge learnt

There are problems with criterion based marking. Even though it gives a percentage and/or grade there is no measure of:

- How hard the test was
- How standardised the marking was
- How a pupil performed relative to others





Using Rank order give two additional advantages -

A student's performance is a function of ability and effort. When a student achieves their desired grade they can 'relax'.

- It can be linked directly back to the pupil's standardised score (e.g. MidYIS or Yellis).
 Pupils underachieving can be highlighted easily using ranking.
- It allows you to assess how a pupil is performing across a range of subjects and a range of classes.



Conclusion to workshop

Data must be robust and wide ranging to allow the analysis of different groups of pupils to identify strengths or areas for development/intervention

Percentages, grades and position are all important in providing real time performance data and objective value added data

A teachers professional knowledge is vital in setting targets which should be aspirational.

Data provides the questions, not the answers and should be used for planning, carrying out, checking and improving to create a culture of continuous improvement

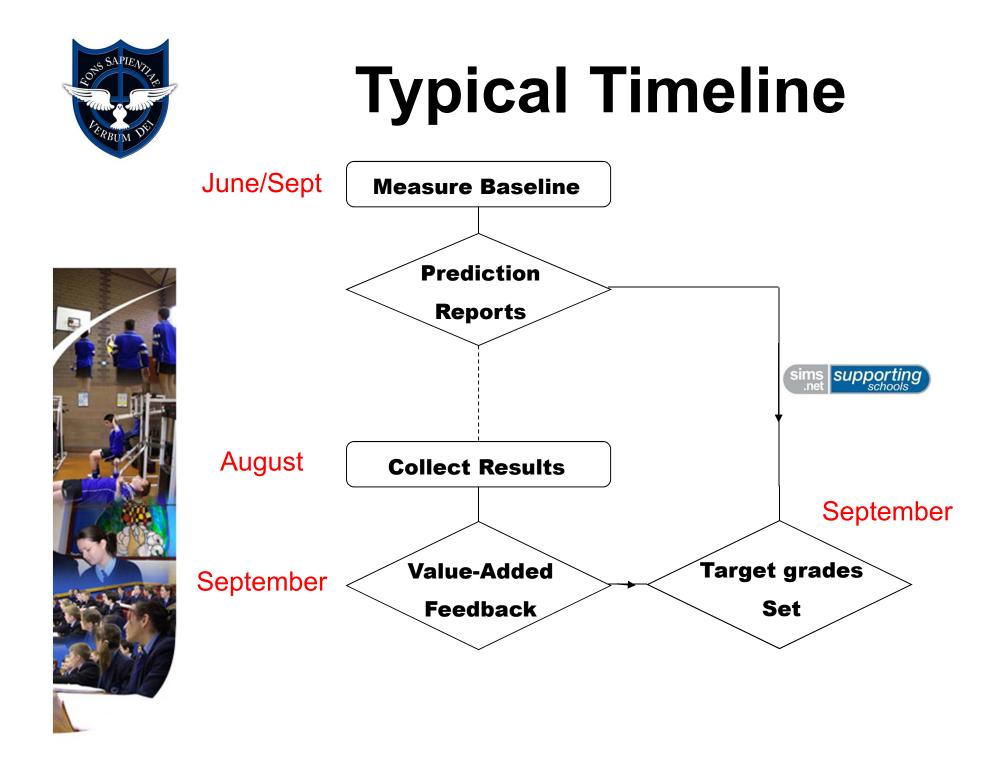


Process in Saint Patrick's



ALIS & Fisher Family Trust: Y13/14 **Secondary Age Range Projects** Yellis : yr 11/12 MidYIS : yr 8/9/10

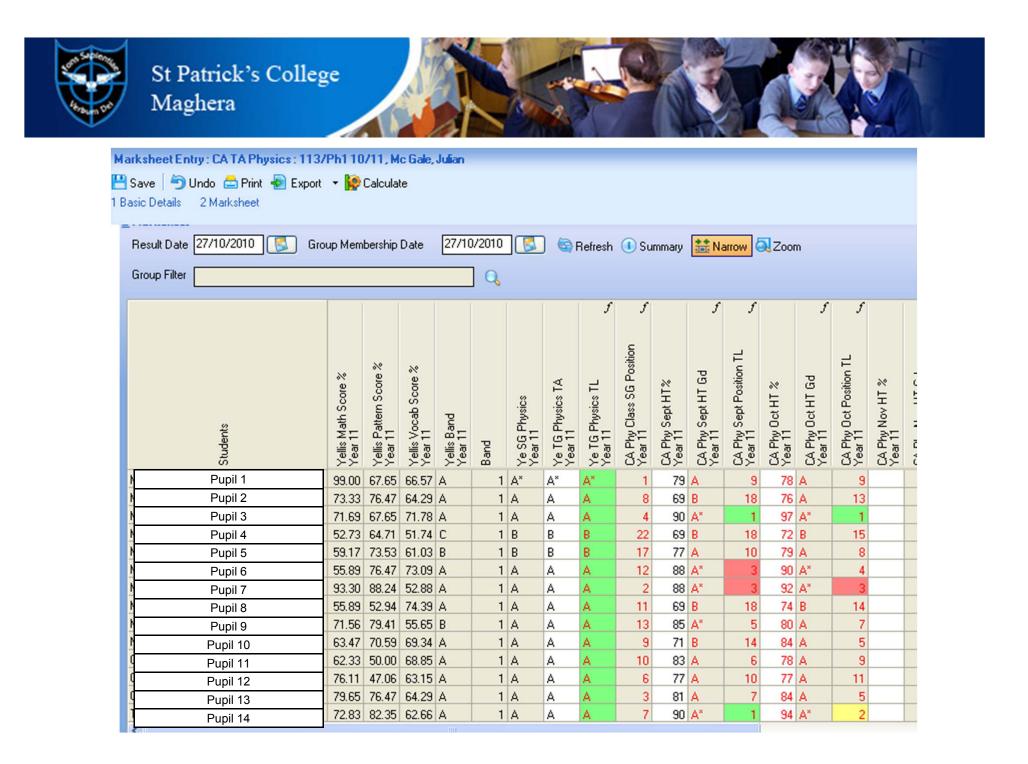






- The marksheet available to the teacher has target grades statistically generated.
- the teacher reviews these and using their judgement they add a target grade for that pupil

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	Pupil 12	71.69	67.65	71.78	A	А	A	A	4		78		A		6		76		A		9				







Other Issues



- Saint Patrick's future development
 - Learning styles
 - Staff training in access and interpretation of data
 - Ranking across mark sheets
 - Standardised mark sheets in and across curriculum areas
 - Exam analysis automated on SIMS
 - Parental access C2K Gateway



- Parents will be able to go on and view selected data made available by the school: As well as assessment data parents will be able to view other data in real time;
 - Attendance stats
 - Coursework deadlines
 - Controlled assessment dates
- Teachers will be able to enter data, complete reports, review progress at a time that suits them.





Planned use of data is a common characteristic of high-performing

Do

Ensure all staff are involved and results Conclusion diagonal decision to drive curriculum changes to target mentor for malained to target mentor for m

Teachers need a clear process ime to acquire skills and guidance to translate data into useful information.

must be used to

Check





