

Using Alis data

Dr Robert Clark
ALIS Project Manager

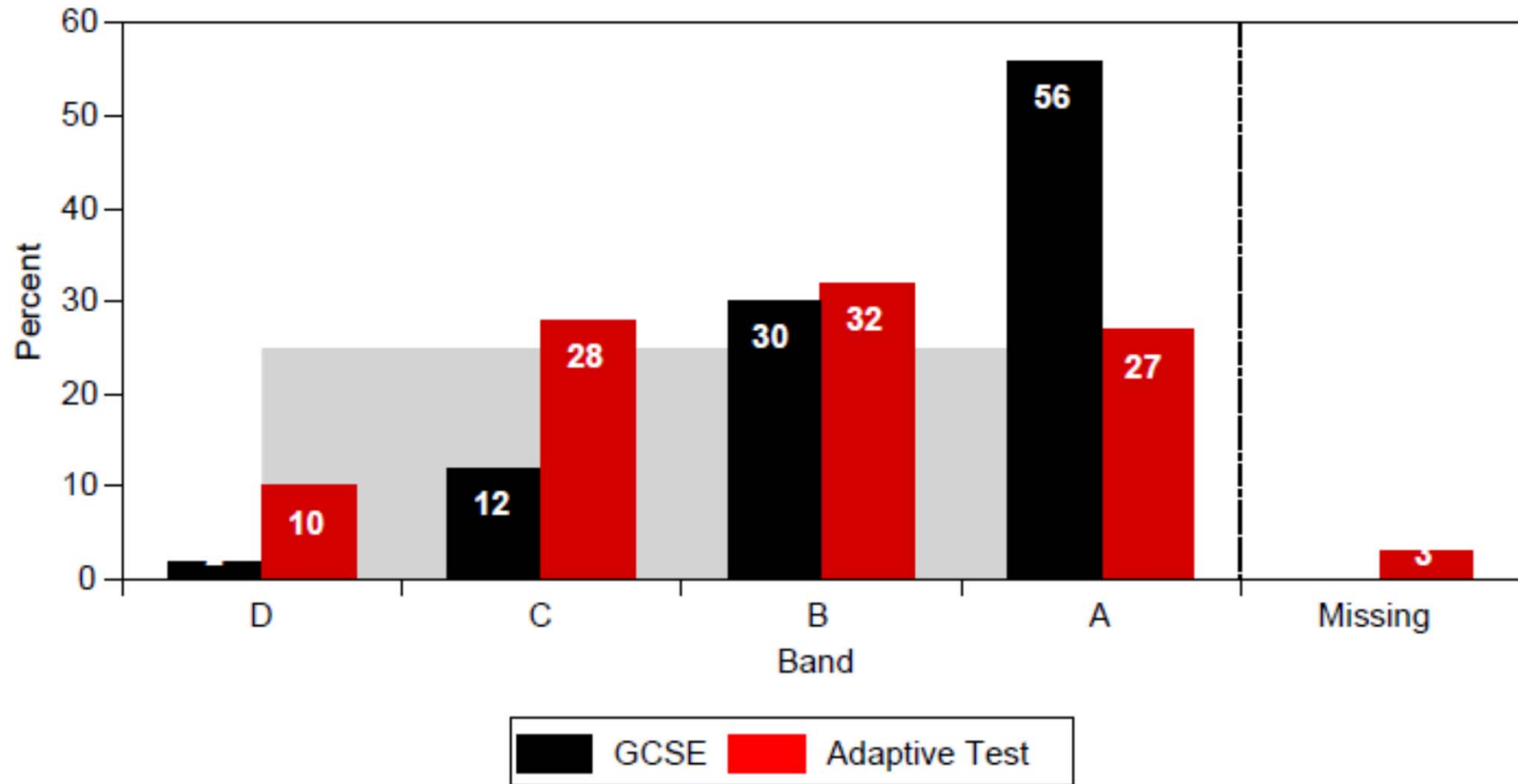
Worked Examples: Baseline Data & Predictions

Refer to the Intake Data on the next 3 slides

- For each school what deductions might you make ?
- What implications are there (if any) for teaching & learning ?

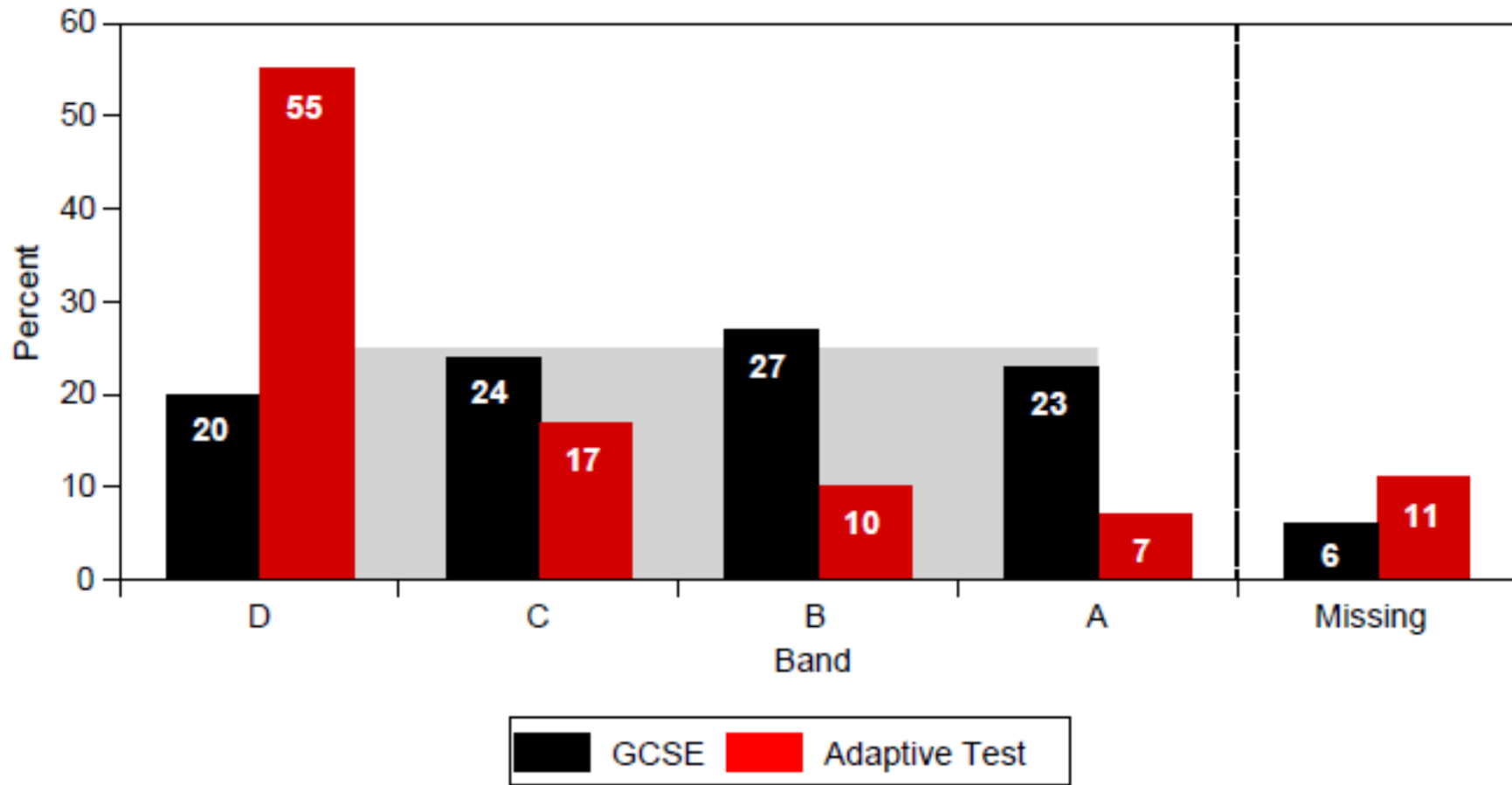
School A

Intake Profile - Baseline Scores



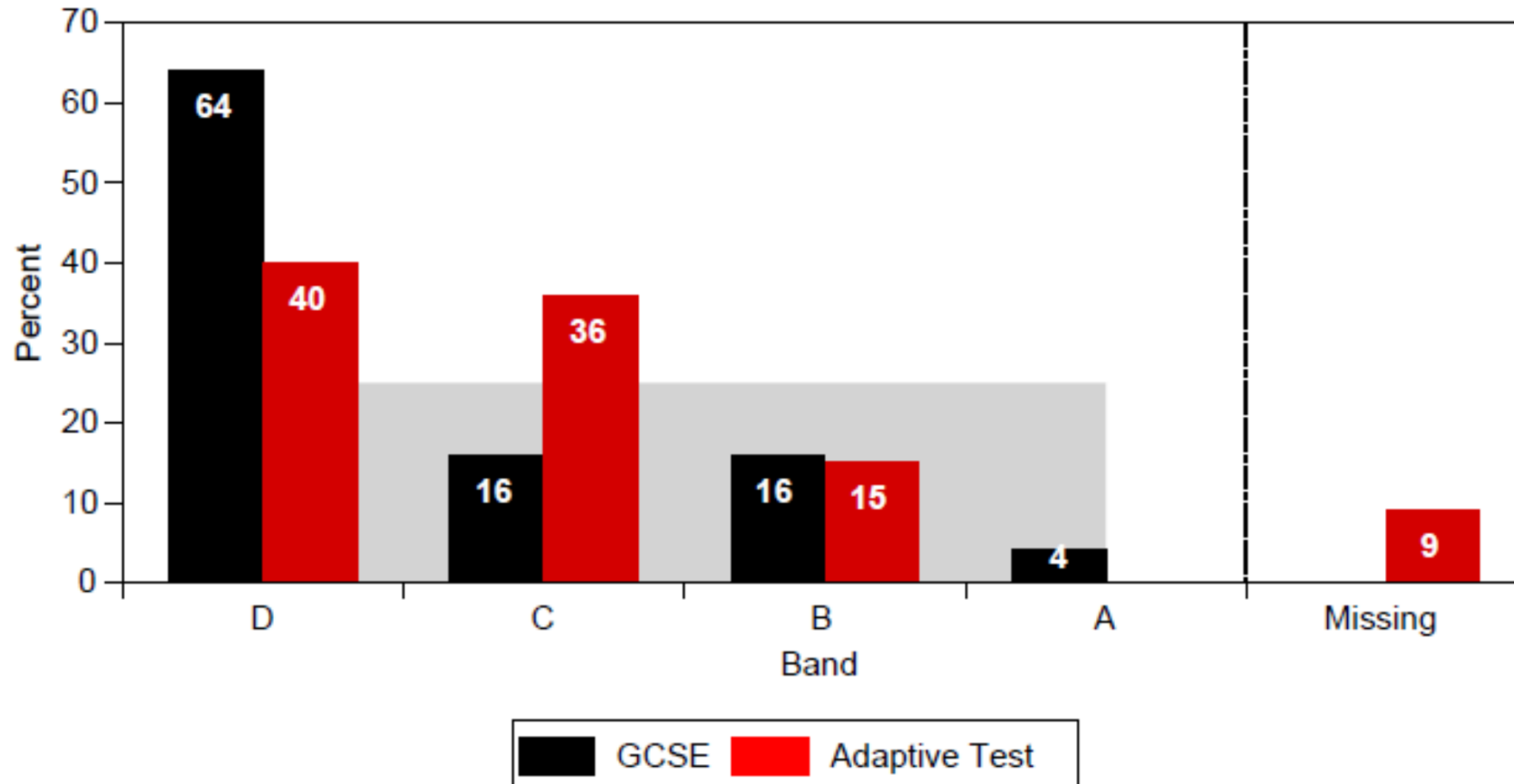
School B

Intake Profile - Baseline Scores



School C

Intake Profile - Baseline Scores



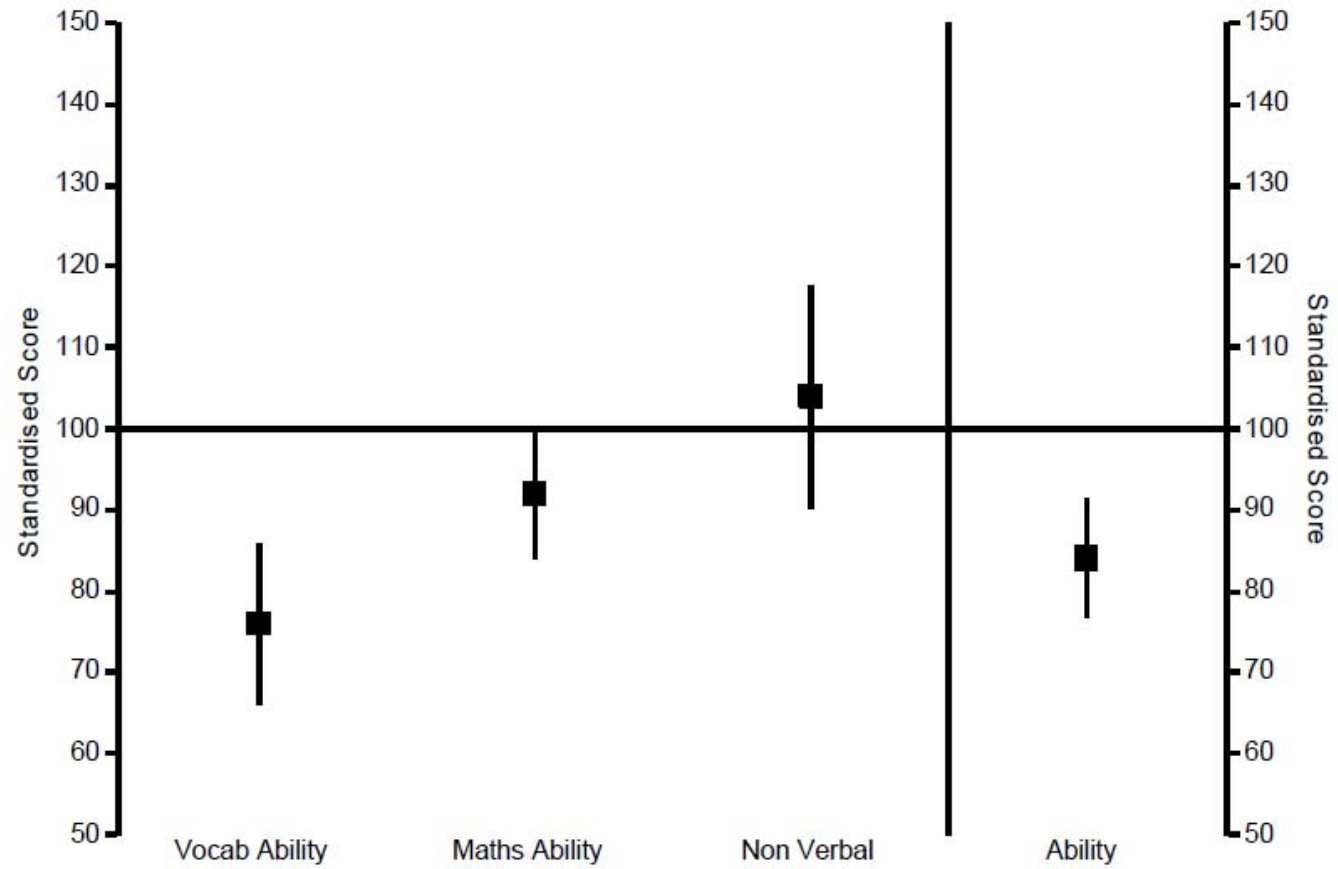
Refer to the Y12 data on the next 2 slides.

- What impact might there be on the pupil's learning ?
- What subjects would you be worried about them studying ?

Note : Non Verbal section includes Perceptual Speed and Accuracy, Pattern Matching, logical reasoning and dice folding

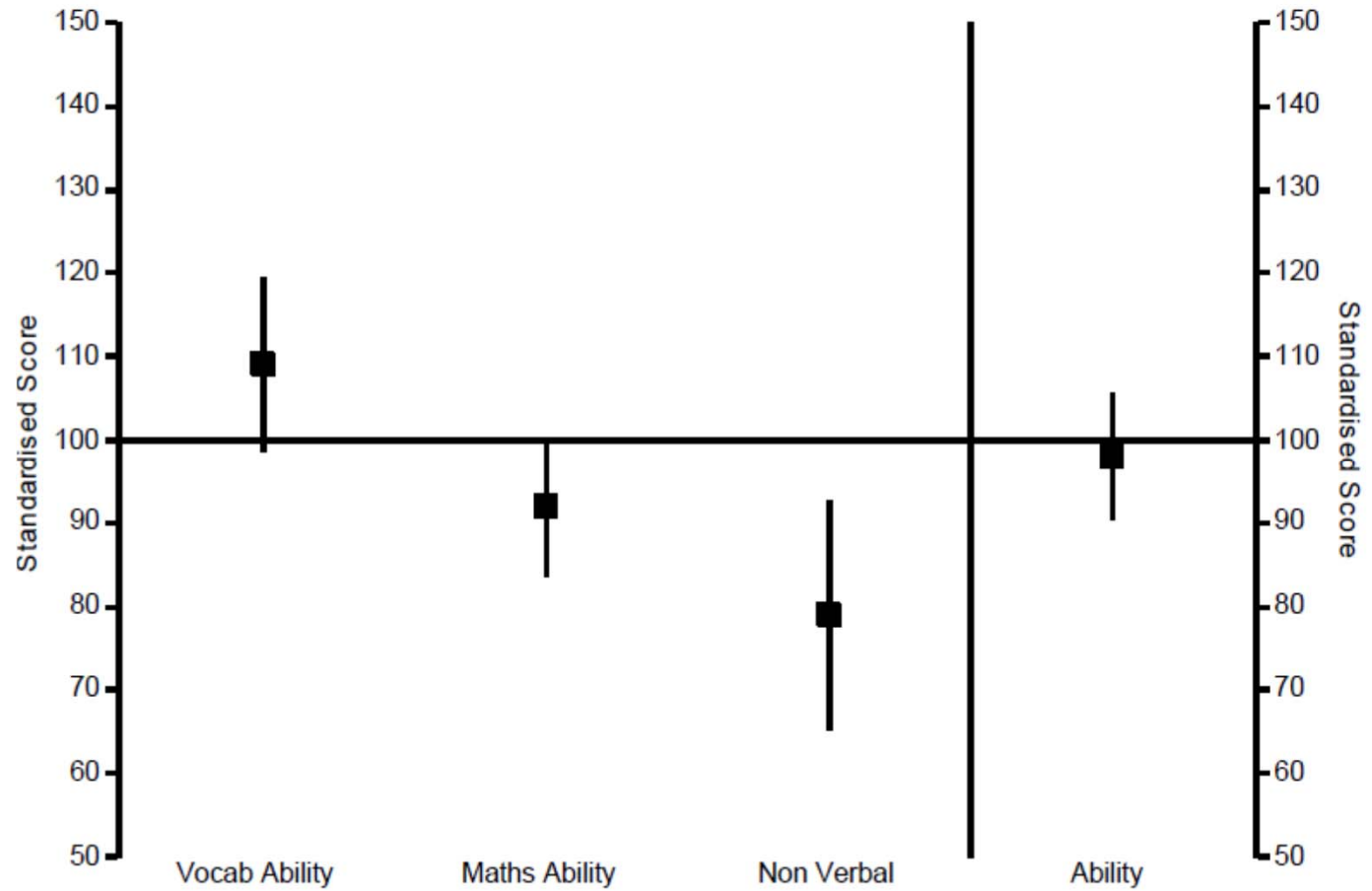


Y12 - Pupil D





Y12 – Pupil E



Refer to the data for Students 1-3 on the next few slides.

- Does the data show any ‘warnings’ about future potential achievement?
- Based only on the information provided, what would be realistic subject targets for the students, and why ?
- Is there any other information that could be helpful ?

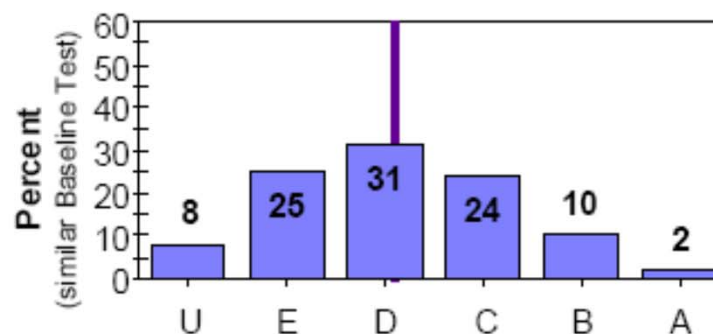
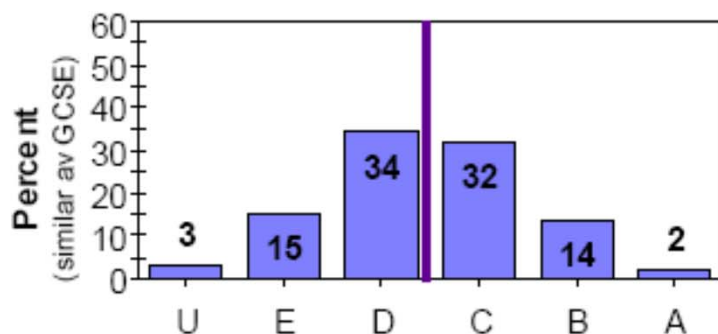


Student 1

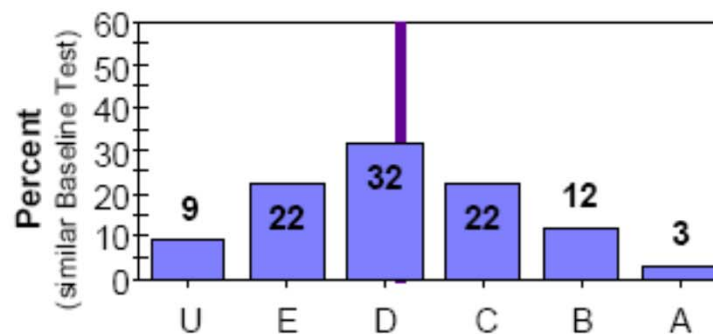
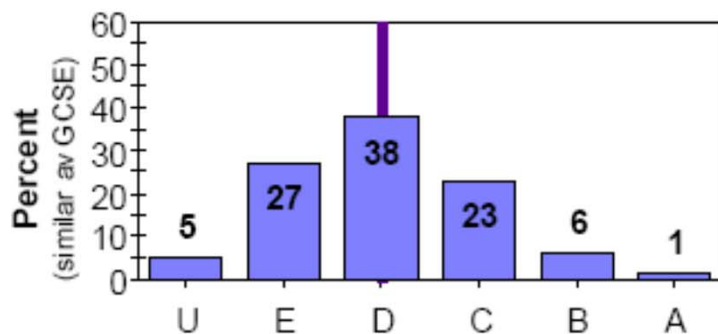
Gender = F Date of Birth = 21/06/92 Year Group = 1
 Average GCSE Score = 4.89 Baseline Test = Adaptive Test Baseline Score = 75.9

Subject	Predictions from GCSE		Predictions from Test	
	Points	Grade	Points	Grade
A2-Business Studies: Single	69	D	61	D
A2-Geography	61	D	63	D
A2-History	64	D	60	D
A2-Psychology	60	D	58	D

GCSE - A2-Business Studies: Single - Adaptive Test



GCSE - A2-Geography - Adaptive Test



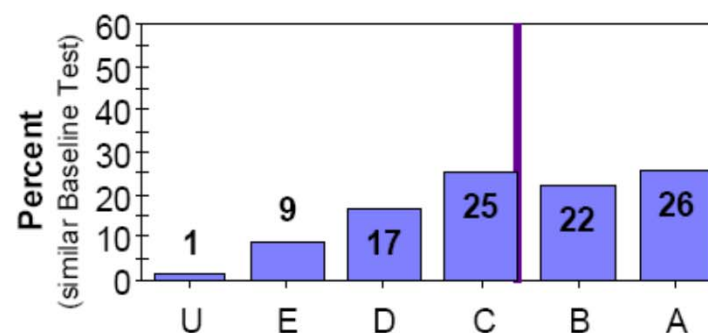
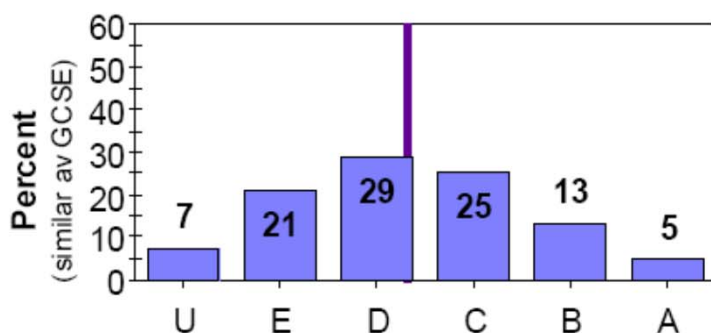


Student 2

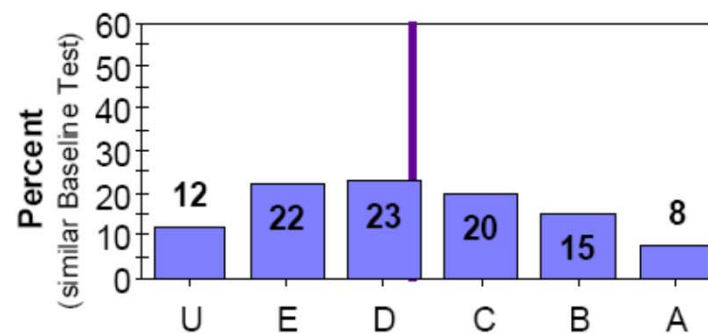
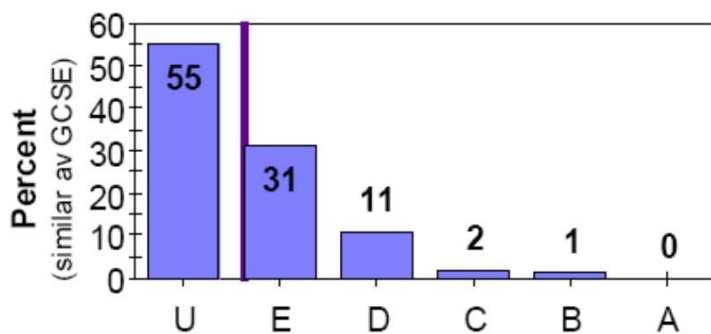
Gender = F Date of Birth = 07/06/91 Year Group = 1
 Average GCSE Score = 4.38 Baseline Test = Adaptive Test Baseline Score = 92.9

Subject	Predictions from GCSE		Predictions from Test	
	Points	Grade	Points	Grade
A2-Art and Design	66	D	86	C
A2-Biology	28	U	63	D
A2-Geography	50	D	79	C
A2-Psychology	49	E	73	C

GCSE - A2-Art and Design - Adaptive Test

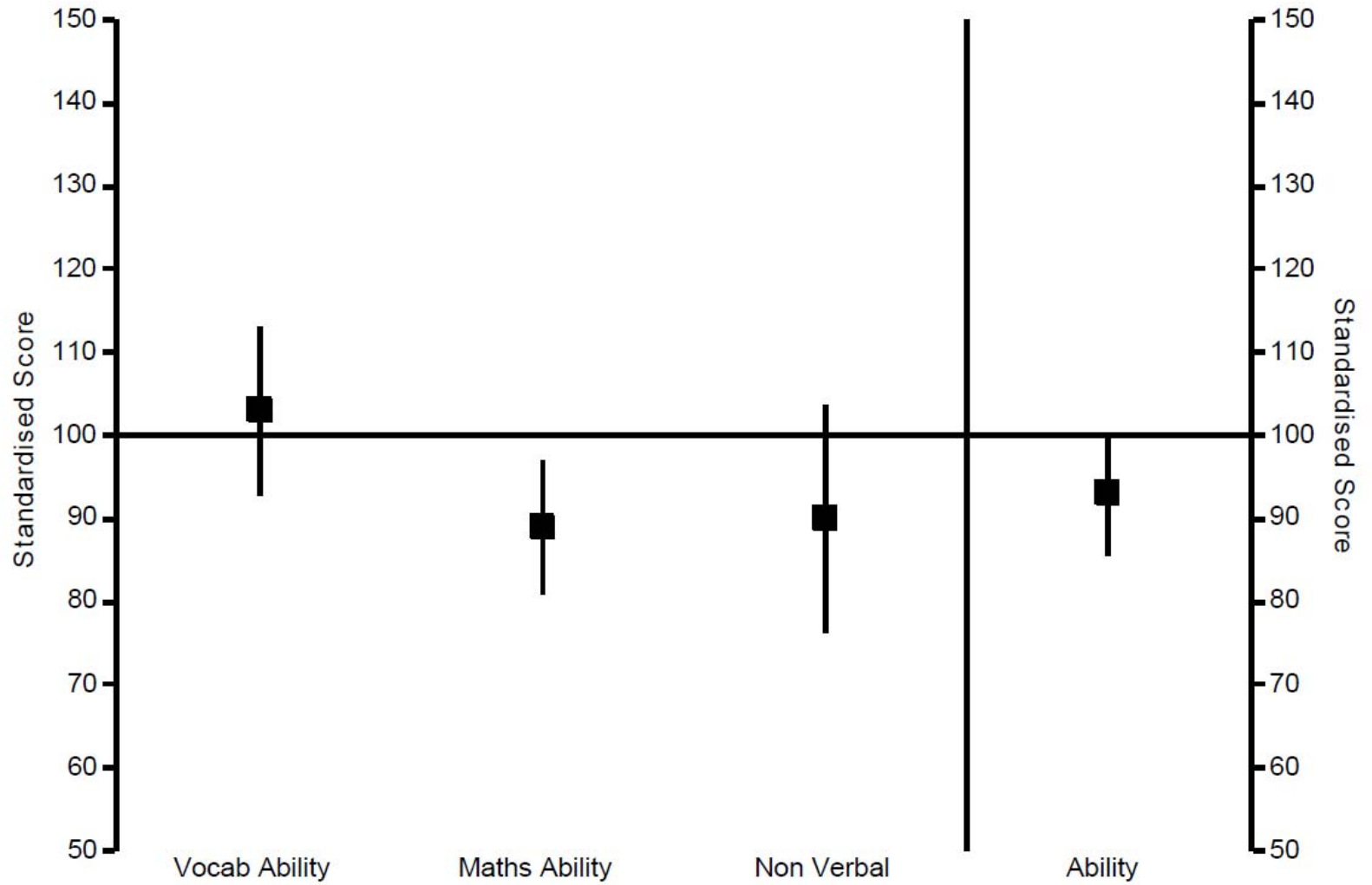


GCSE - A2-Biology - Adaptive Test





Student 2 - IPR





Student 3

Gender = M

Date of Birth = 22/08/90

Year Group = 1

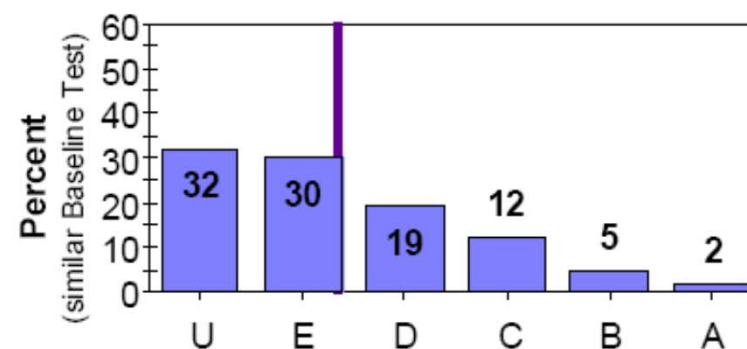
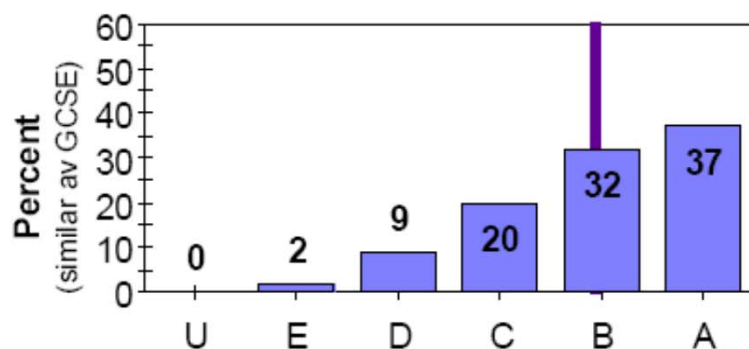
Average GCSE Score = 7.00

Baseline Test = Adaptive Test

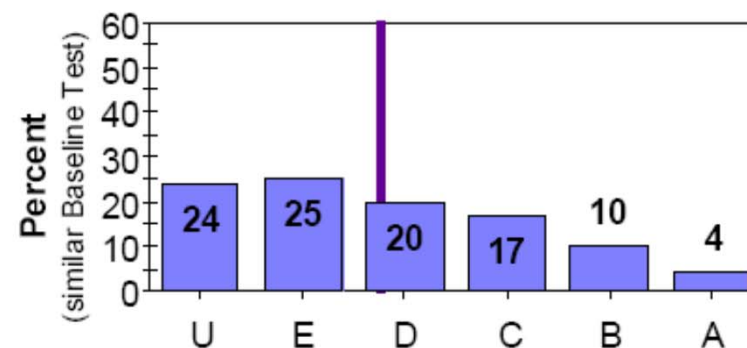
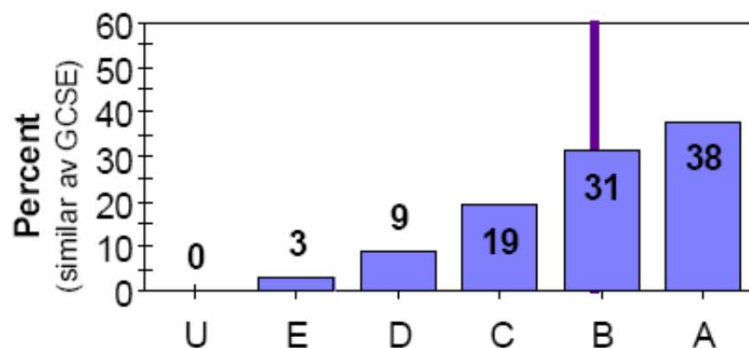
Baseline Score = 76.0

Subject	Predictions from GCSE		Predictions from Test	
	Points	Grade	Points	Grade
A2-Biology	96	B	43	E
A2-Chemistry	96	B	54	D
A2-Mathematics	102	B	59	D
A2-Physics	95	B	30	U

GCSE - A2-Biology - Adaptive Test

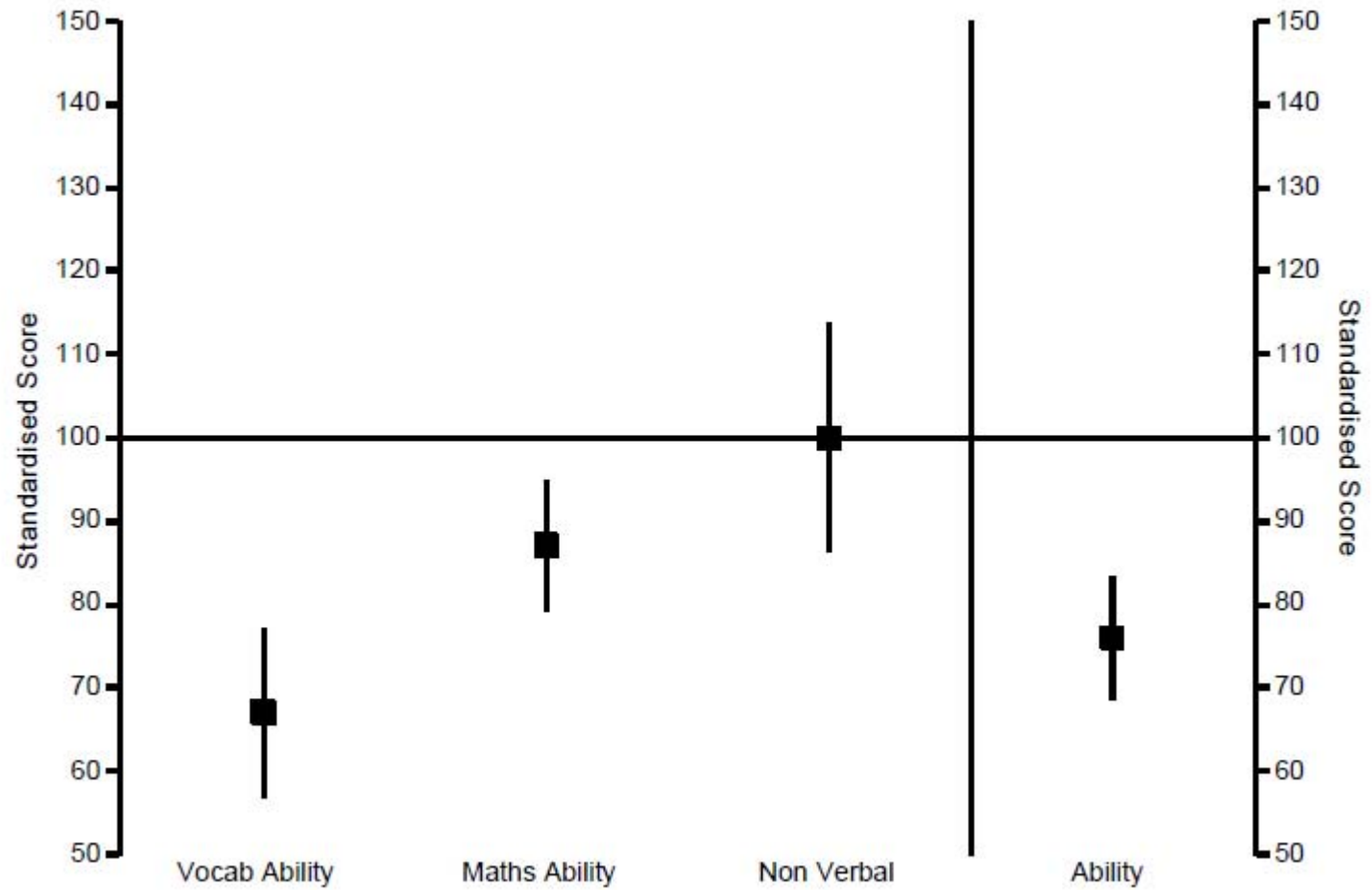


GCSE - A2-Chemistry - Adaptive Test

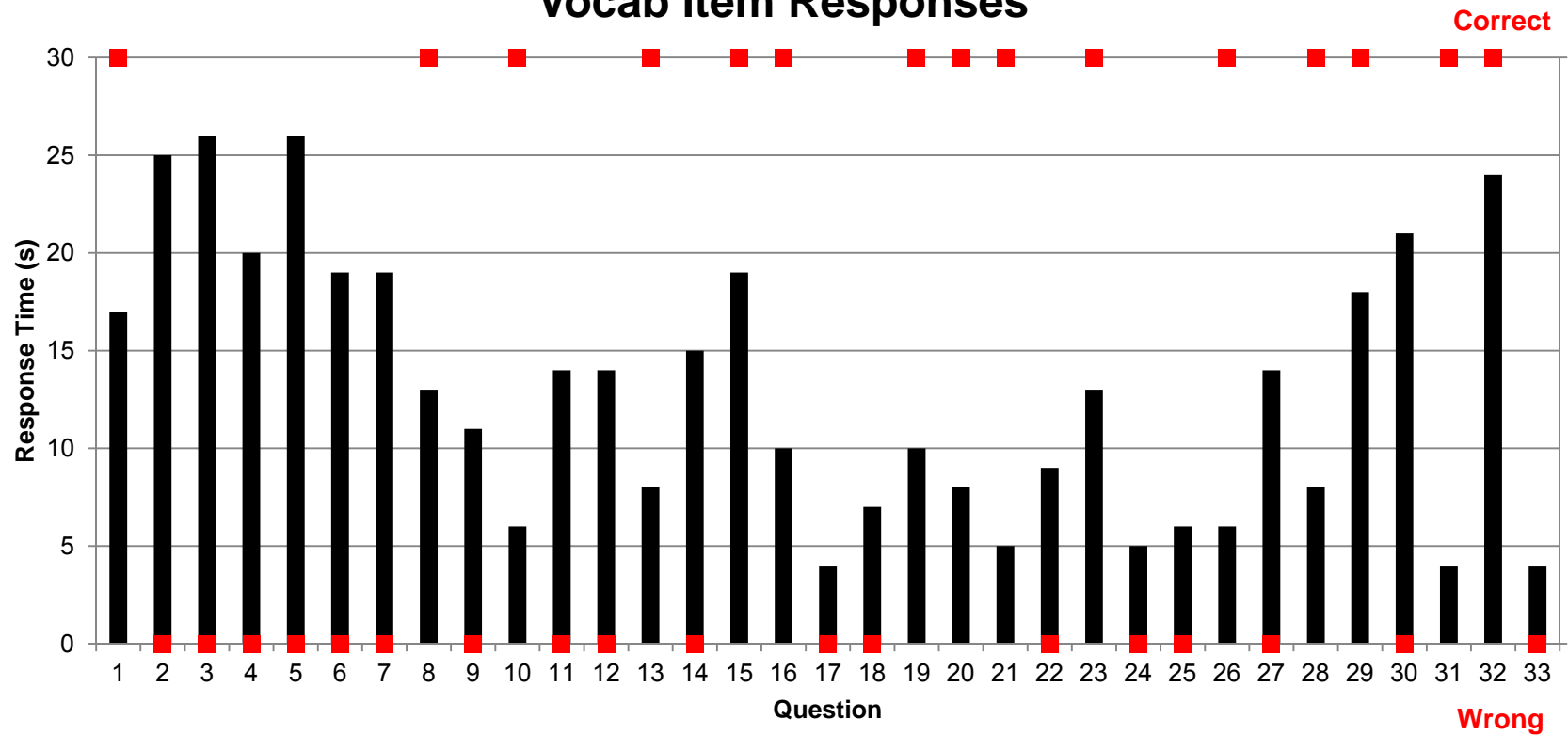




Student 3 - IPR



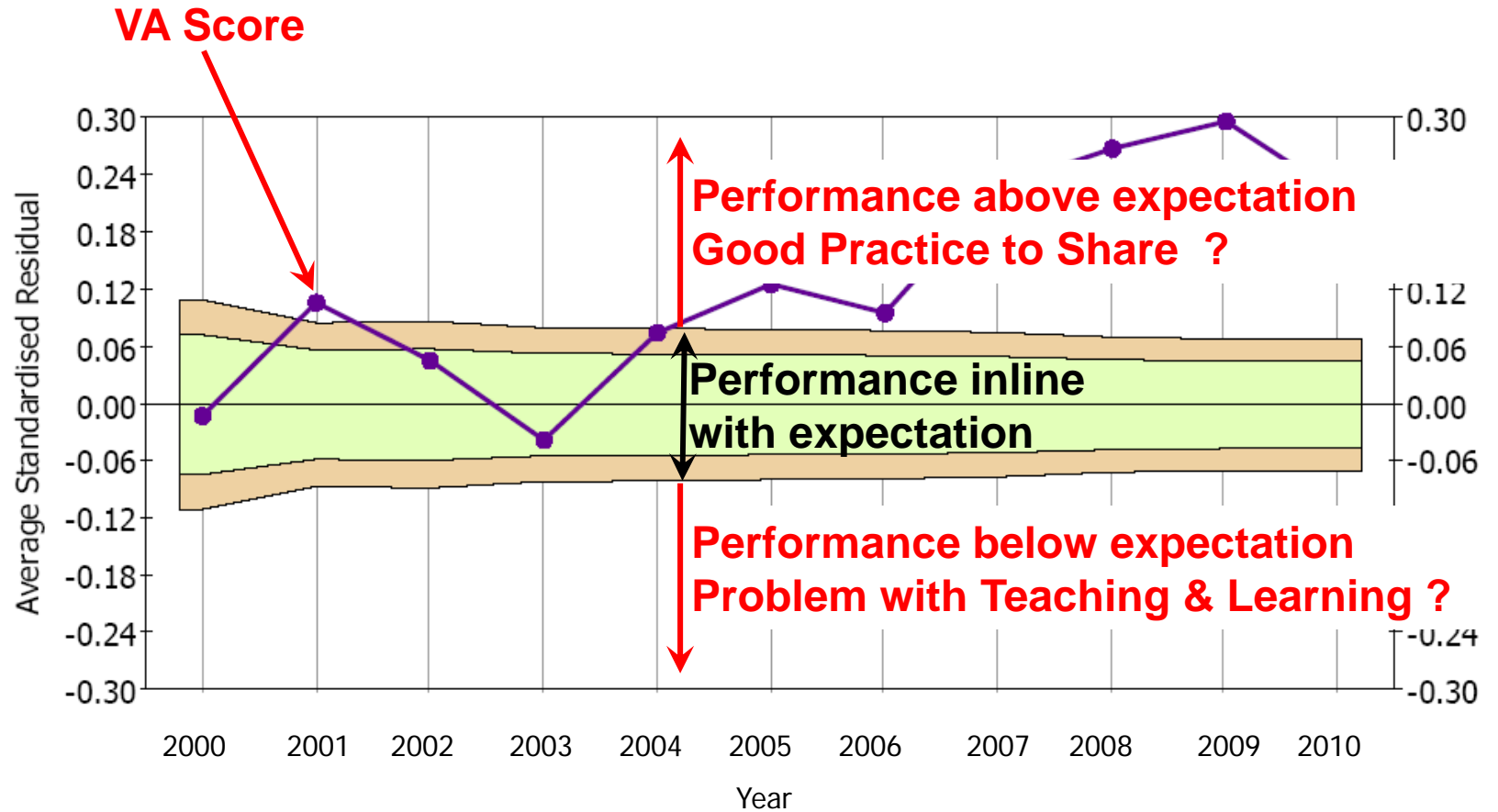
Vocab Item Responses



Value Added



SPC Chart



Baseline Choice



GCSE or Baseline Test ?

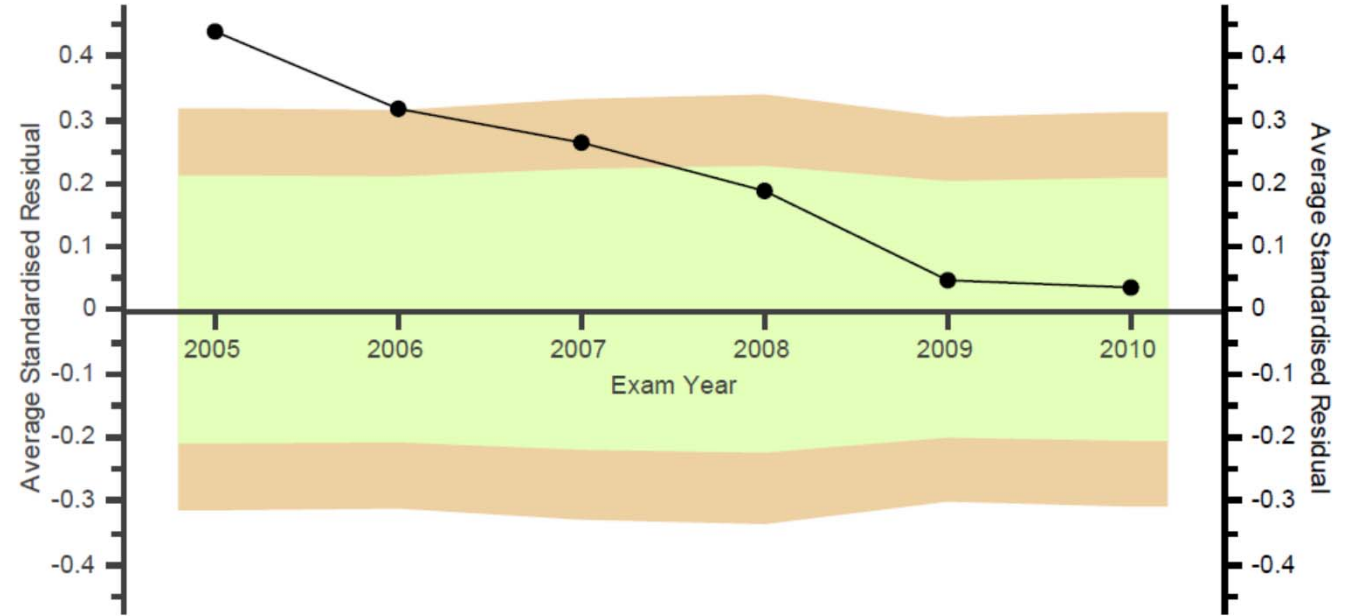
- Do students with the same GCSE score from feeder schools with differing value-added have the same ability ?
- How can you tell if a student has underachieved at GCSE and thus can you maximise their potential ?
- Has a student got very good GCSE scores through the school effort rather than their ability alone ?
- Does school GCSE Value-Added limit the ability to add value at KS5 ?
- Can you add value at every Key Stage ?
- How can you check for this ?



GCSE Value-Added	KS5 Expectations	KS5 Value-Added
↑	↑	↓ ?
—	—	—
↓	↓	↑ ?

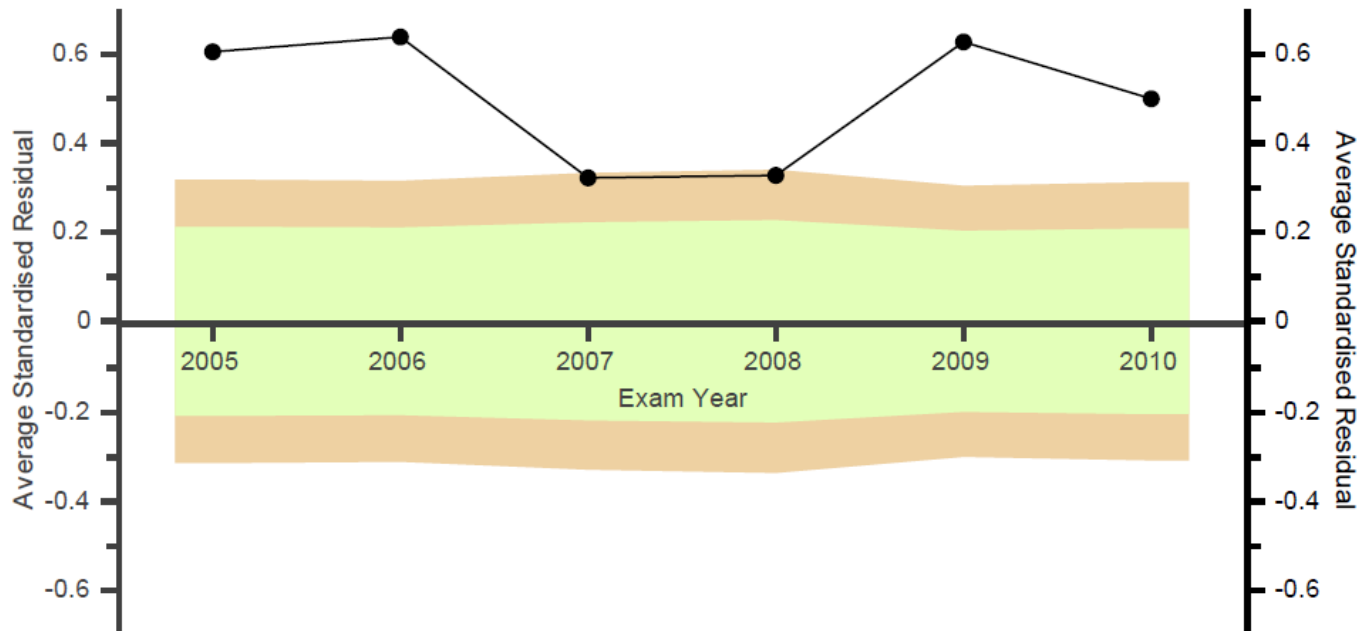


**GCSE as
Baseline**



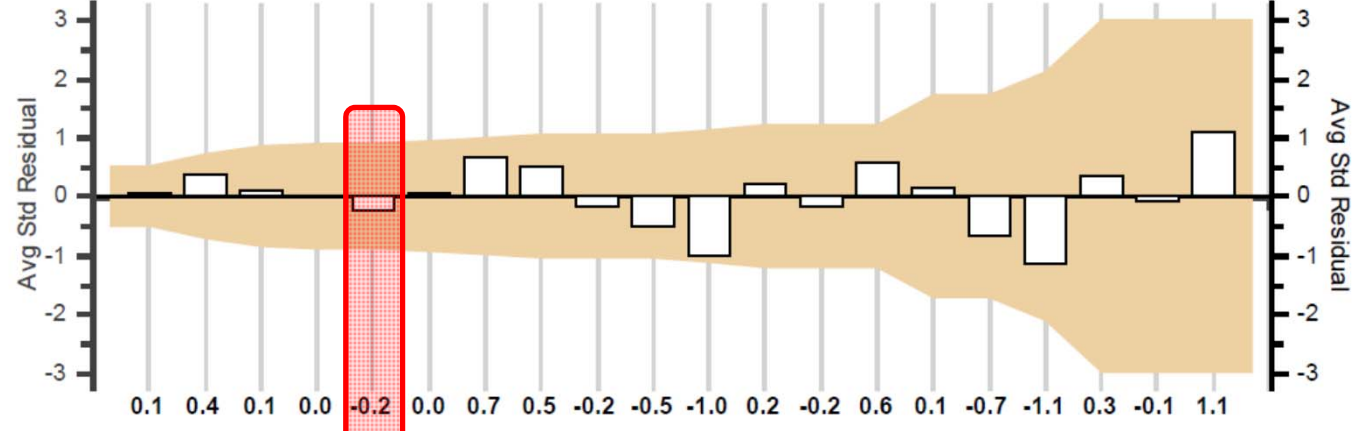
Same School - Spot the Difference ?

**Test as
Baseline**

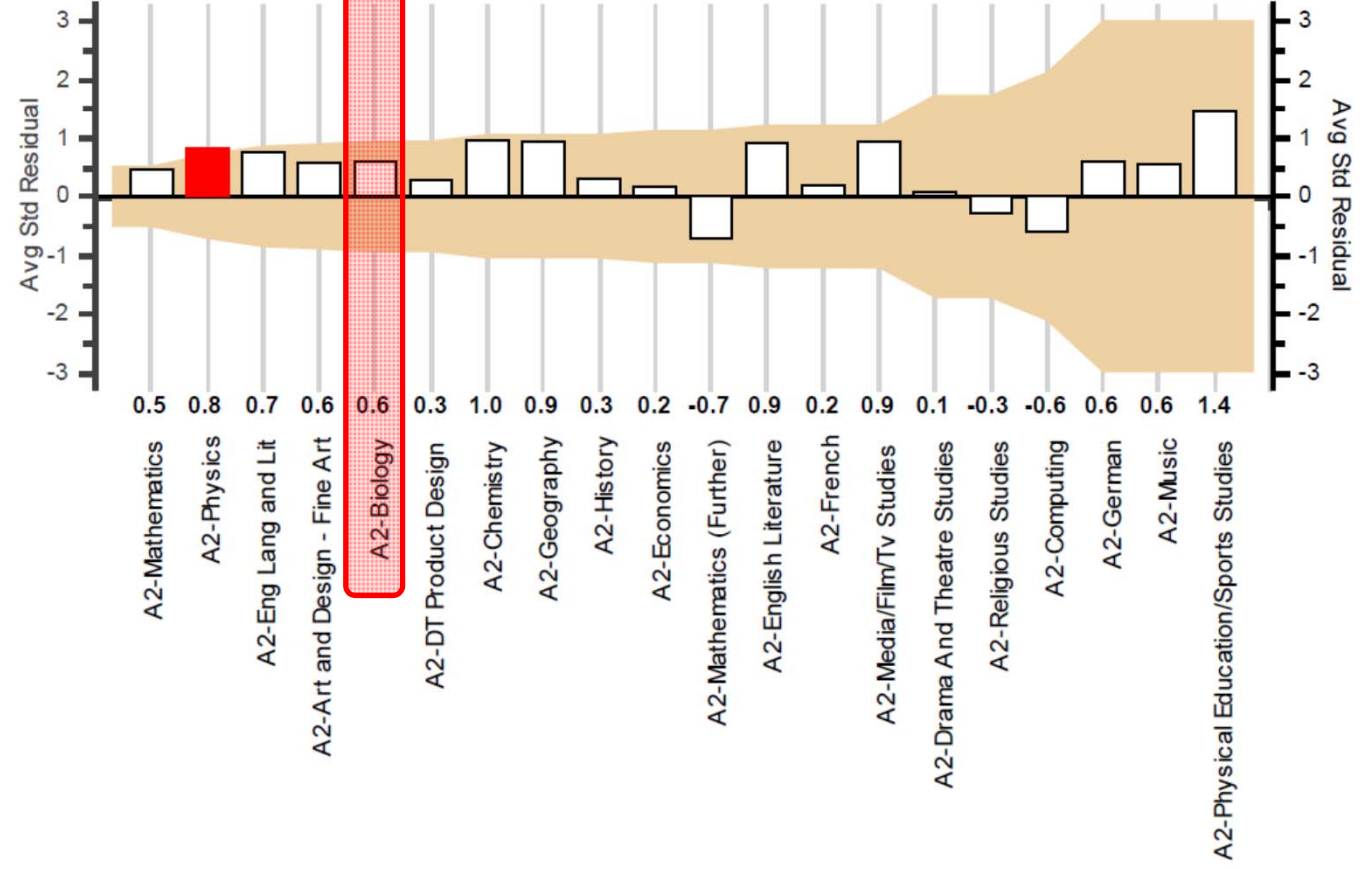




**GCSE as
Baseline**



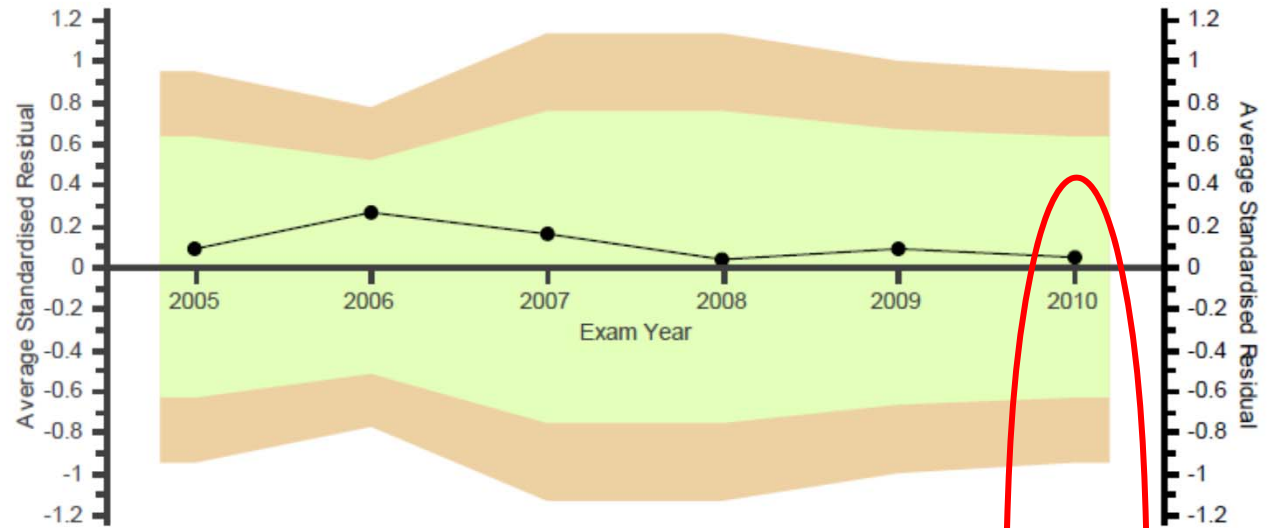
**Test as
Baseline**



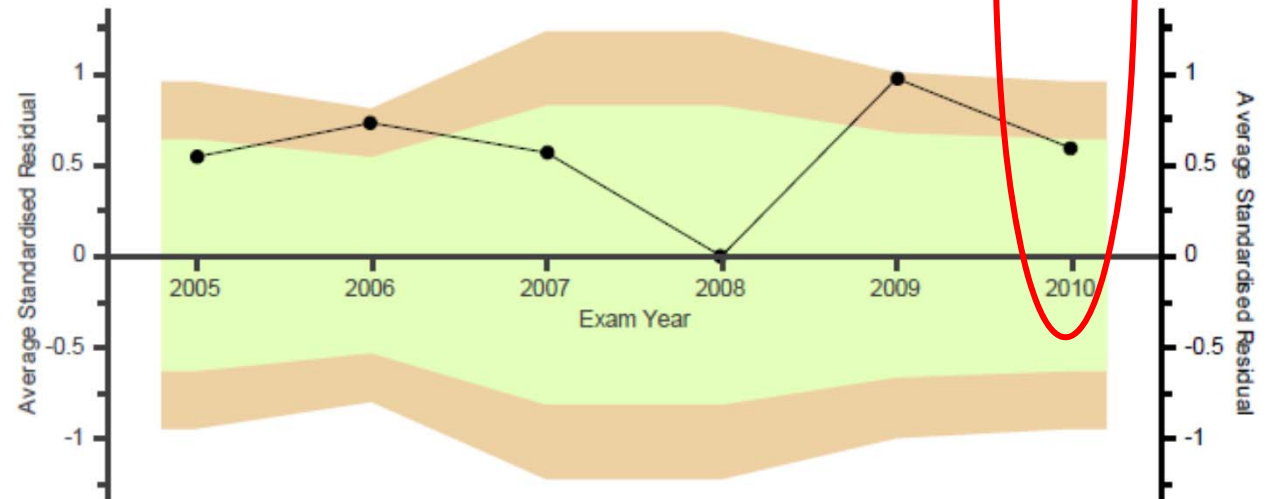


A2 Biology

**GCSE as
Baseline**



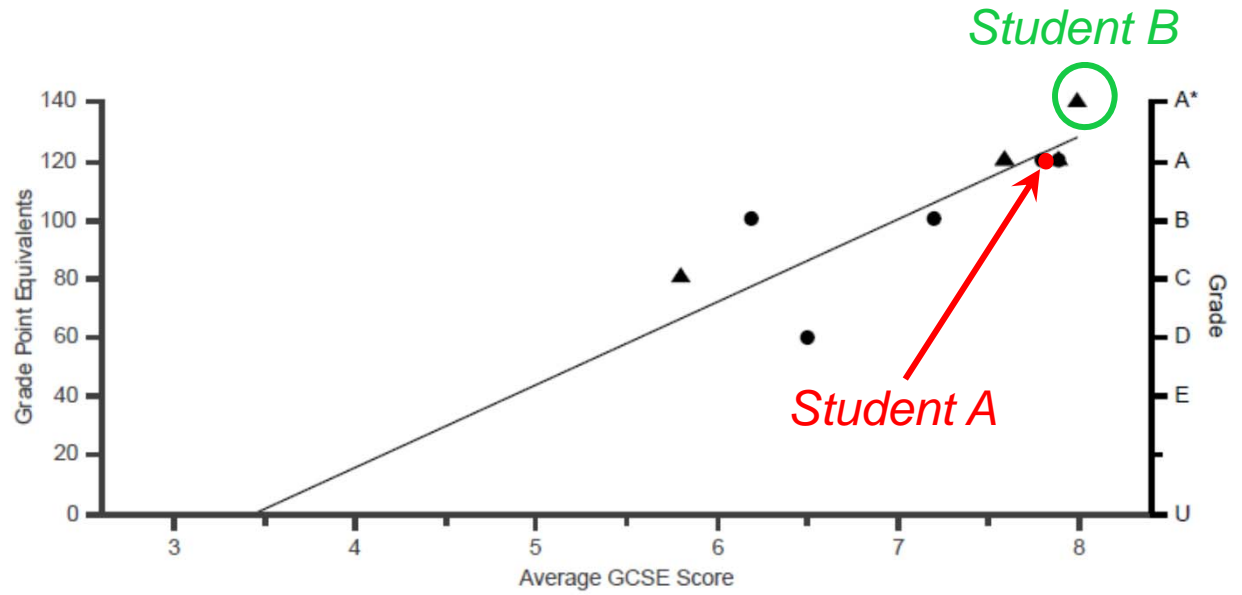
**Test as
Baseline**



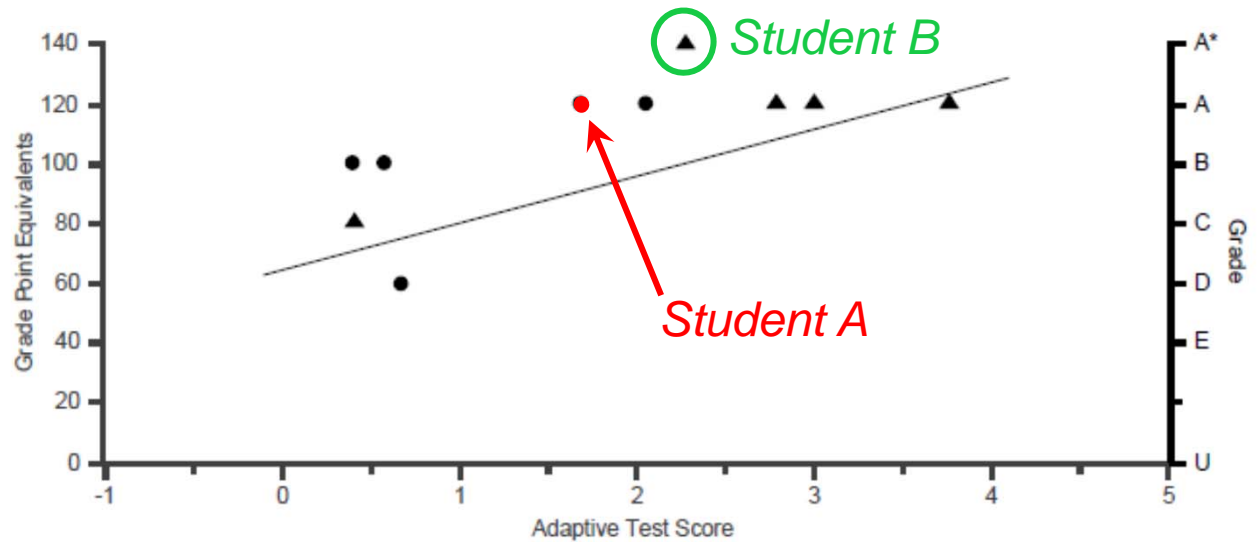


A2 Biology

**GCSE as
Baseline**



**Test as
Baseline**





A2 Biology

Student A

Baseline	Baseline Score	Grade	Points	'Predicted' Points	VA (Residual)
GCSE	7.8	A	120	122.4	-2.4
Test	1.7	A	120	90.6	29.4

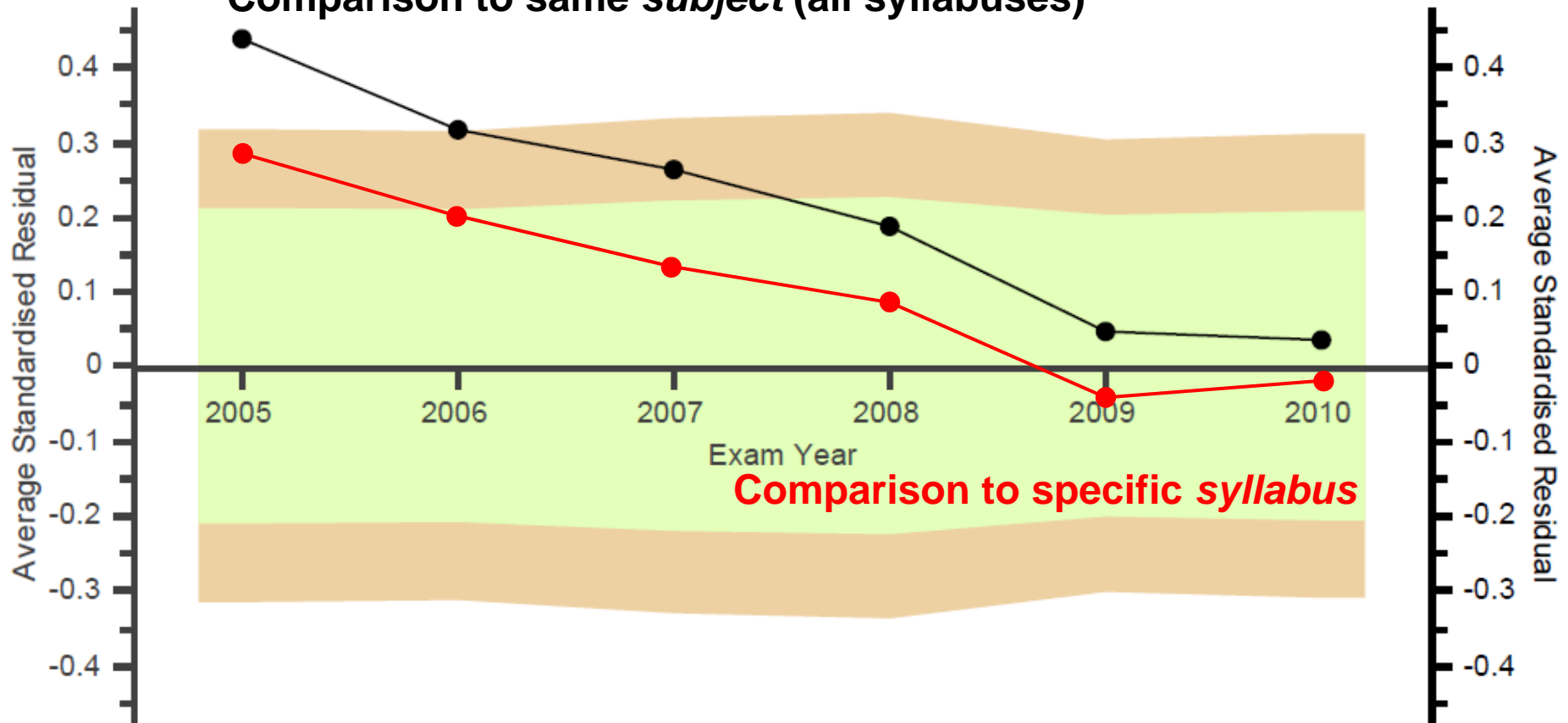
Student B

Baseline	Baseline Score	Grade	Points	'Predicted' Points	VA (Residual)
GCSE	8.0	A*	140	128.1	11.9
Test	2.3	A*	140	100.1	39.9

How well did these students perform ?

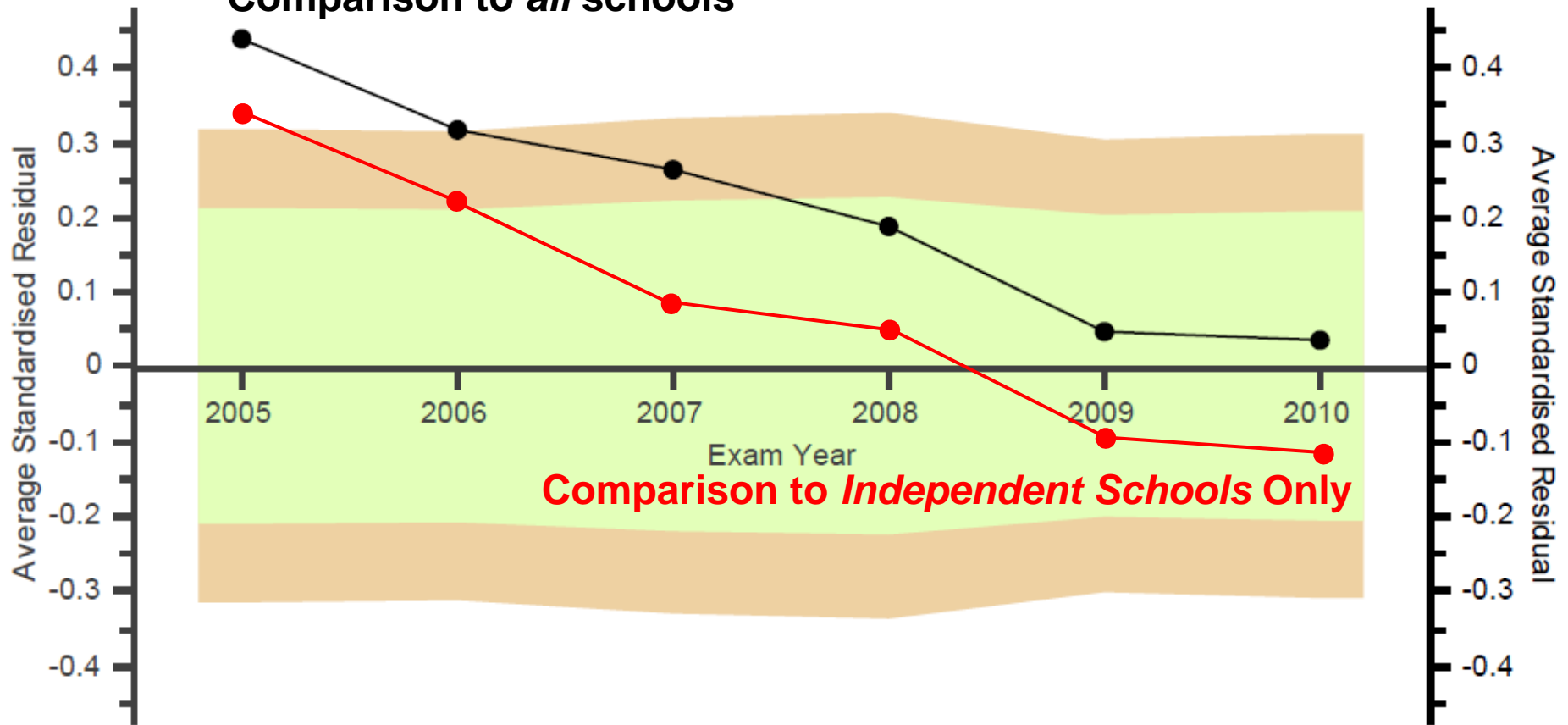
Subject or Syllabus ?

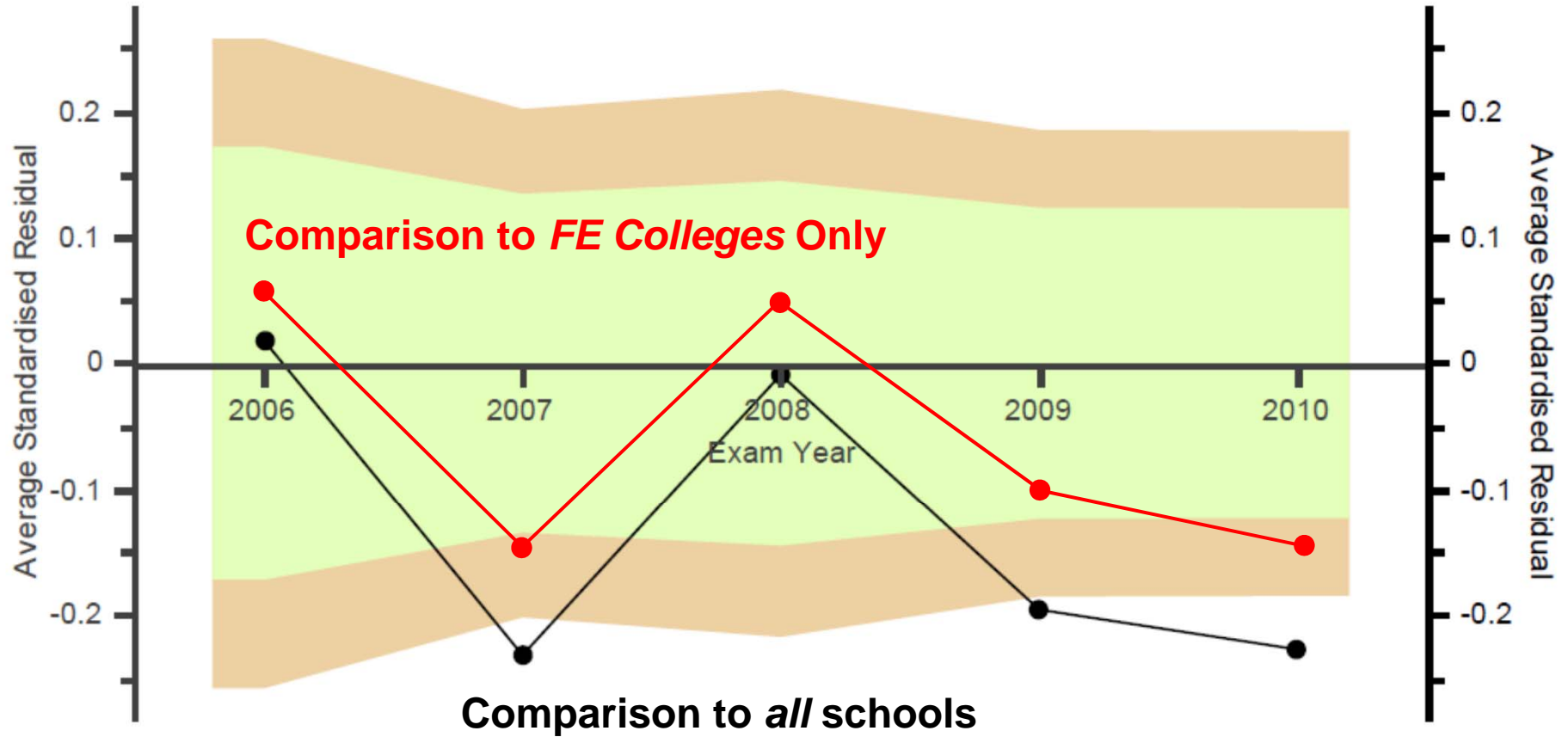
Comparison to same *subject* (all syllabuses)



National or School Type Specific ?

Comparison to *all* schools





Questions:

- **How does the unit of comparison used affect the Value-Added data and what implications does this have on your understanding of performance ?**
- **Does this have implications for Self Evaluation ?**

Dr Robert Clark
Alis Project Manager
robert.clark@cem.dur.ac.uk
0191 33 44 193