Feedback in Key Stage 3

What difference does this make to youngsters?

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Universities in the UK - 29 November 2017









What do we do?

Does achieving a satisfactory level at Key Stage 3 affect....

... Students' plans to stay on in full-time, post-compulsory education?

... Weekdays spent doing homework?

Does this effect change by students' characteristics? (gender, ethnicity, SES)



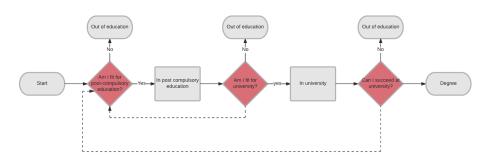






Why Key Stage Three?

Every phase in education is a stepping stone for the next phase





Why Key Stage Three (2)?

Key Stage 3 exams are low-stake exams:

- Signal students' ability to students, teachers and families
- Results are overlooked by university admission committees and employers

Quite clean signal of ability





Why do we need feedback?

- To help people make the best choices for them
- ► To inform teaching (e.g., sets)
- To signal areas where more investment (study, tuition) is needed

Feedback can reduce inequality, by filling the information/resource gap between low and high SES students







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I wasn't ready for university - so I dropped out

Not all students are ready for university. A student blogger shares her experience of dropping out, and starting uni afresh



University is just too much for some students, writes a student blogger who dropped out. Photograph: Alamy





Advertisement





Students Blogging students

f 💟 🖾 ...

Helen Whitehouse

Thursday 6 February 2014 10.04 GMT

Can feedback be dangerous?

- Feedback is noisy
- Feedback divides people into groups (e.g., those who pass and those who fail)
- Feedback reduces the concept of 'academic ability' to a restricted set of skills



Feedback can increase inequality by -imperfectlylabeling students with different types/levels of ability







"Every faculty member, dean, and college president can benefit from reflecting on the message of this book and pondering its implications for the way they go about their work." —DEREK BOIK, President Emeritus, Harvard University

SMART ENOUGH?

HOW COLLEGES' OBSESSION WITH SMARTNESS SHORTCHANGES STUDENTS



ALEXANDER W. ASTIN

AUTHOR OF WHAT MATTERS IN COLLEGE









What do we know already? (1)

A student receiving positive feedback is more likely...

- ▶ To enroll in an academic Degree
- ► To enroll in University
- ▶ To expect good University grades
- To study STEMs at University
- To graduate from University

What do we know already? (2)

The effect is stronger if the student:

- Misjudges her ability
- Is from low SES





Data

- ► Longitudinal Study of Young People in England (LSYPE)
 - Survey of about 15,000 pupils living in England born between September 1989 and August 1990.
- National Pupil Database (NPD)
 Covers all students in state schools

MISOC Research Centre on Micro-Social Change







| Year | Month | Number interwieved | Median Age | Year at School | Key Stage | |
|--------|-----------|-----------------------|------------|-------------------|-----------|--------------------------|
| | January | - | | 9 | | |
| | February | - | | | | |
| | March | 30 | | | | LSYPE wave 1 |
| | April | 3,717 | | | | |
| | May | 3,856 | | | | KS3 tests are taken |
| 2004 | June | 3,493 | 14 | | | NOO LESIS dIE LAKEII |
| | July | 2,182 | | | | |
| | August | 832 | | | | KS3 results are released |
| | September | 434 | | | | |
| | October | 23 | | | | |
| | November | - | | | | |
| | December | - | | | | |
| | January | 92 | | 10 | | |
| | February | N=- | | | | |
| | March | - | | | | |
| | April | 394 | | | 4 | LSYPE wave 2 |
| 100000 | May | 3,206 | 241 | | | |
| 2005 | June | 3,940 | 15 | | | |
| | July | 2,983 | | | | |
| | August | 1,783 | | | | |
| | September | 355 | | | | |
| | October | - | | 11 | | |
| | November | - | | | | |
| | December | 1 - | | | | |







KS3 Exams in 2004

- Were marked by external examiners
- Marks were assigned following official guidance by the 'Qualification and Curriculum Authority' (QCA)
- The performance war converted into levels on the basis of pre-set thresholds



Capturing the effect of feedback

- ► Would you compare Laura&Claire..... Claura&Clare
- ▶ ...or Laura&Elena? ► Laura&Elena

We compare students who just missed the satisfactory level and students who just achieved it!

Full-time post compulsory education

Students marginally achieving a satisfactory level in Mathematics are around 6 percentage points more likely to want to stay on in full-time post-compulsory education than students marginally missing it

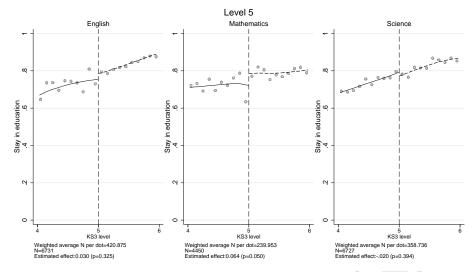
No effects are found for achieving a satisfactory level in English or Science











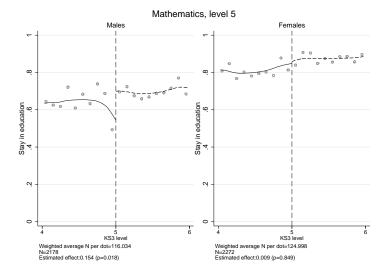


Boys are driving the Maths effect!

- Boys marginally achieving a satisfactory level in Mathematics are around 15 percentage points more likely to want to stay on in full-time post-compulsory education than students marginally missing it
- Stronger effects are found for White British and high SES boys















Effort (Homework)

Effect on homework can be positive or negative (motivation vs slacker effect)

- Depends on whether people attribute their success to ability or effort
- Depends on whether people see ability and effort as complementary or substitute







Results

- Effects only found for girls in the case of achieving a satisfactory level in English
- Low SES girls and girls from ethnic minorities increase the time spent doing homework by half a day when they marginally achieve the satisfactory level in English







Conclusions

 Boys marginally achieving a satisfactory level in Mathematics are more likely to want to stay on in full-time post compulsory education

Do boys care more about Mathematics?







Conclusions (2)

 Girls marginally achieving a satisfactory level in English are more likely to increase the time spent doing homework

Do girls care more about English?

Do girls attribute their success to hard work and boys to talent?

Girls believe brilliance is a male trait, research into gender stereotypes shows

Study highlights how children as young as six can be influenced by stereotypes such as the idea that brilliance or giftedness is more common in men











Thanks!

For more questions: Ifumag@essex.ac.uk









English

| This case study is organised into two sections of text written in different styles . | : The place and The problem. They are |
|---|---------------------------------------|
| explain one difference in the way they are written. | |
| | |
| | (1 mark) |
| | |
| | |
| | |
| Explain how the order of these two sections, <i>The plan</i> understand fully the problems caused by tourism in F | |
| | |

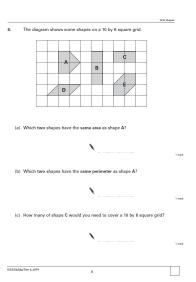








Mathematics



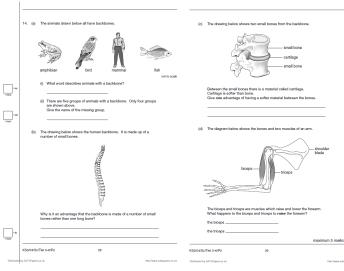








Science













Laura & Clare

Laura

Not particularly gifted
Loves hanging around in the outdoors
Wants to become a lifeguard
Does homework twice a week
Comes from low SES family
Had a bad exam day

Was not awarded a satisfactory level

Clare

Very gifted
Loves reading
Wants to become a scientist
Does homework fives days a week
Comes from a high SES family
Had a good exam day

Was awarded a satisfactory level















Laura & Elena

Laura

Not particularly gifted
Loves hanging around in the outdoors
Wants to become a lifeguard
Does homework twice a week
Comes from a low SES family
Had a bad exam day

Was not awarded a satisfactory level

Elena

Not particularly gifted
Loves hanging around in the outdoors
Wants to become a lifeguard
Does homework twice a week
Comes from a low SES family
Had a good exam day

Was awarded a satisfactory level











