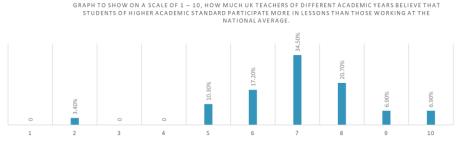
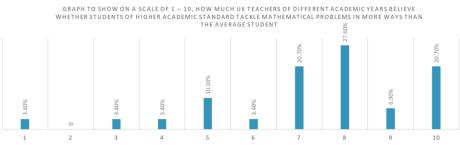
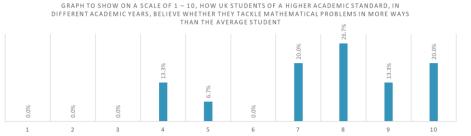
Do Students of a Higher Academic Standard Tackle Mathematical Problems in Different Ways?









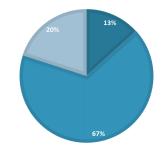
Students across the world undertake studies in different ways, with mathematics being a subject that the vast majority will be assessed in at some point in their academic careers.

Upon working with a year 6 mixed ability class, as well as teaching a small group of year 6 students working above the national average, the outlook higher; academically talented students have when tackling mathematics and mathematics based subjects can be discussed. This was done by completing a total of 27 hours of placement at a primary school in Leeds, attending weekly on Wednesday mornings. Throughout each week, the advanced group of year 6's would be taken out for half an hour to complete worksheets and exam questions of increasing difficulty.

Alongside this, in order to have a larger sample range than just one specific school community, two surveys were created. One survey was completed by teachers at the school and other UK teachers of both primary and secondary schools, the other was completed by higher achieving UK students ranging from Year 10 – Third Year University. Although the primary students did not partake in this survey, they were observed and questioned throughout the placement on the topics brought up.

COMPARISON BETWEEN THE BELIEF OF BEING NATURALLY SMART AT MATHEMATICS AND PREFERRING TO BE CORRECT THAN TO LEARN FROM MISTAKES.

- Below 5 on belief but 5 and above for preferring to be correct
- 5 and above on belief and preferring to be correct
- 5 and above on belief but below 5 for preferring to be correct



Above average students care more about being correct than learning from mistakes.

Embarrassment is a key reason for lack of participation in higher achieving students.

Boredom is a common reason for a lack of participation in above average students.

Stress surrounding upcoming exams is caused by internal and external factors. Increased difficulty in work leads to more group work and less stress within advanced students.

