## 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
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 ear 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

- Below 5 on belief but 5 and above for prefering to be correc

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



Above average tudents care more about being correct than mistakes.

## key reason for lac <br> of participation in <br> higher achieving

 students.

Further research:
Do students of Different Genders View Mathematics
Differently?

Comments from studen

"more males than females"
"always more girls than boys"
"more girls"

STUDENTS OF AN ADVANCED MATHEMATICAL CLASS, IN DIFFERENT
ACADEMIC YEARS, BELIEVE WHETHER THE CLASSES THEY WERE NTM
 - yes ${ }^{-N o}$

"there were [only] 3 girls"

## Females are more <br> likely to worry

about being correct
than males.

