



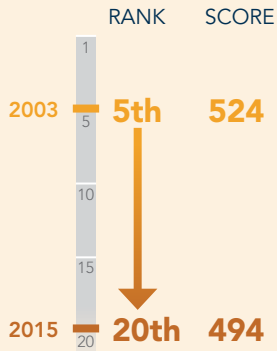
SCIENCE AND MATHS IN AUSTRALIAN SECONDARY SCHOOLS

Student performance – 2015



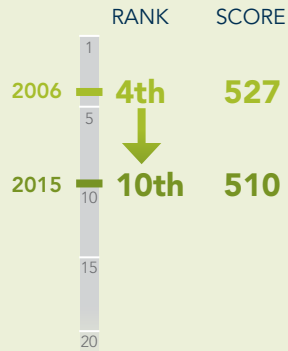
Mathematics

1. Australia's PISA score and international ranking have **declined in maths**

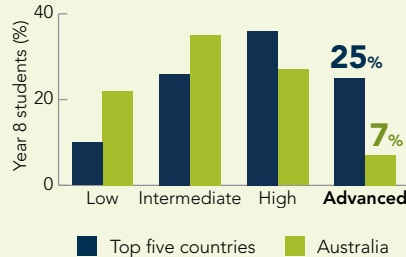
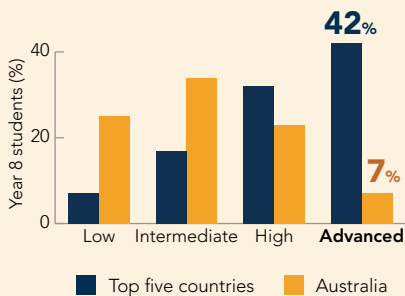


Science

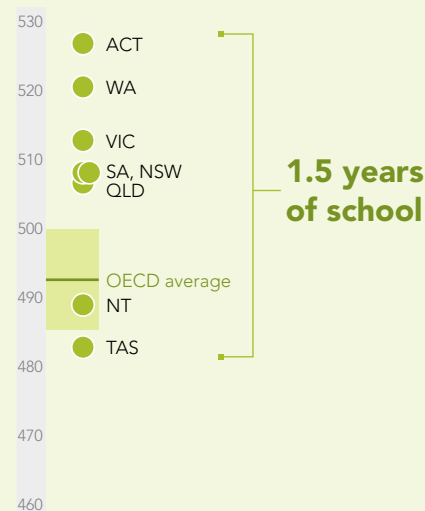
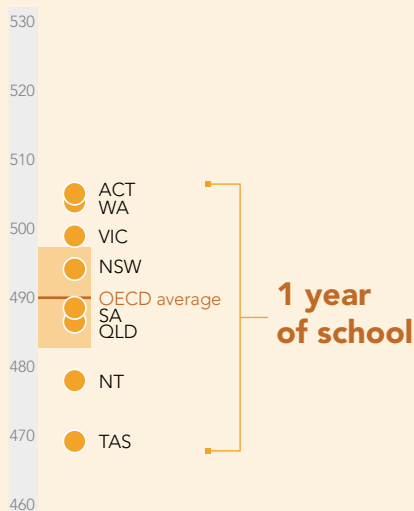
Australia's PISA score and international ranking have **declined in science**



2. Fewer Australian students performed at TIMSS **advanced levels of maths and science** compared with the top five countries

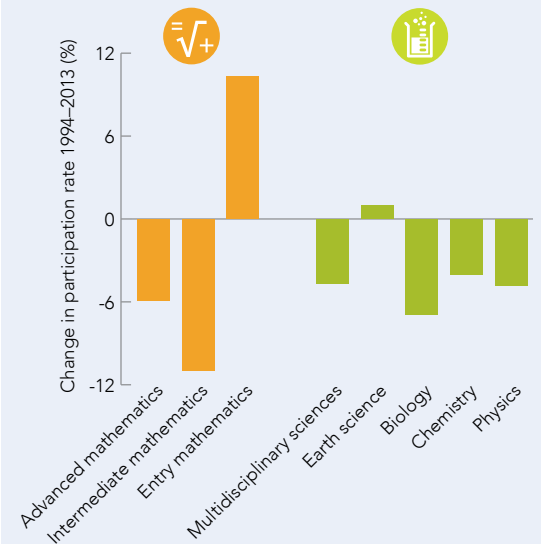


3. PISA performance in **maths and science** varies by state and territory, with significant differences between highest and lowest equivalent to ...



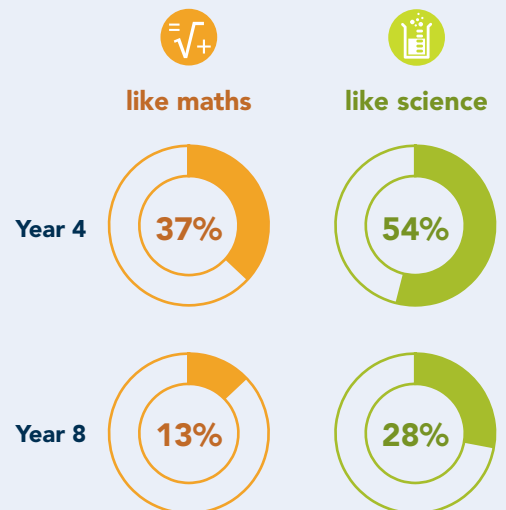
Student participation

A. Participation in most Year 12 **maths** and **science** subjects is declining and for **science** is the **lowest in 20 years**



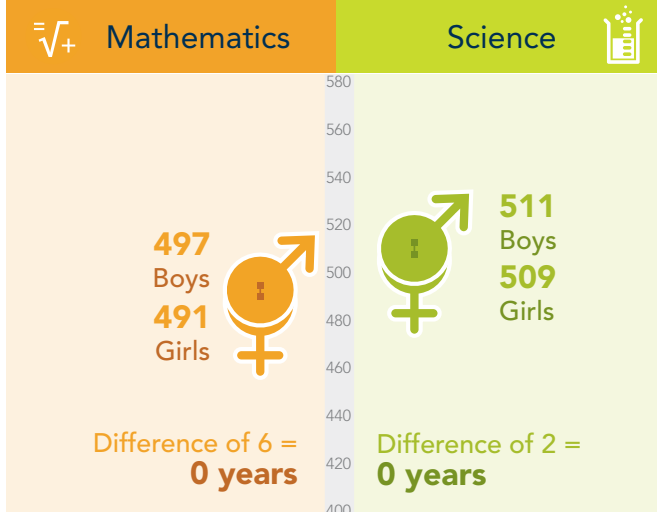
Only **1 in 10** students completes advanced **maths** in Year 12

B. Older students are **losing interest in maths and science**

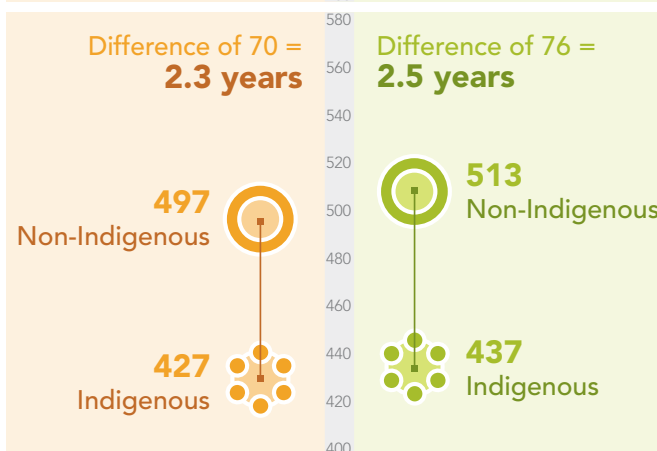


Student performance – PISA 2015 scores

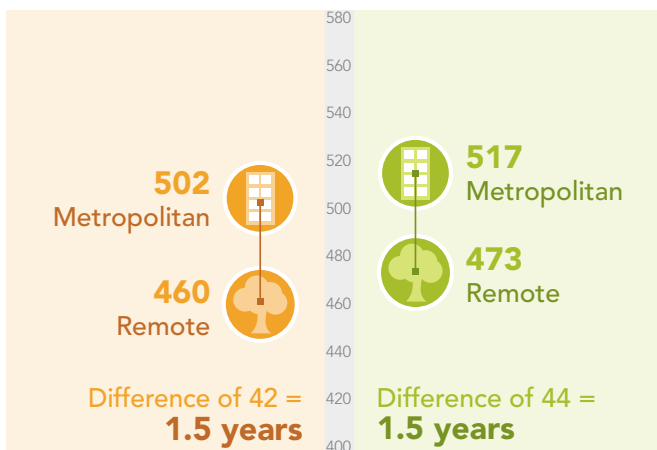
4. Boys and girls performed **about the same** in both **maths** and **science**



5. The difference between **Indigenous and non-Indigenous** student performance was equivalent to greater than 2 years of schooling



6. Students in **metropolitan** areas significantly **outperformed** students in **remote** Australia, equivalent to 1.5 years of schooling

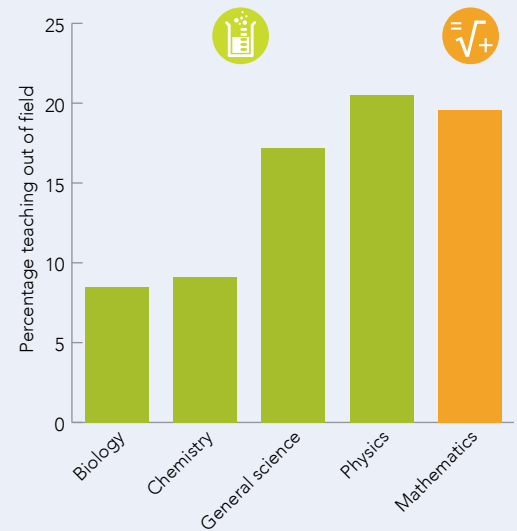


7. Students from **high socio-economic status (SES)** backgrounds significantly **outperformed** those from **low SES** backgrounds



Teacher supply

A. Around 20% of secondary **maths** and **science** teachers across all sectors (government, independent and Catholic) are teaching '**out of field**' – i.e. are not qualified to teach the subject



B. The proportion of schools that have difficulty filling Year 8 **maths** and **science** teaching positions is about double the international average

