



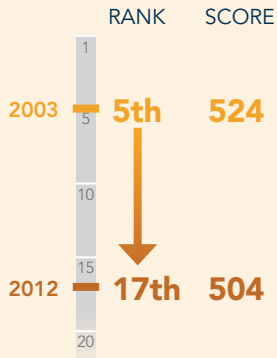
SCIENCE AND MATHS IN AUSTRALIAN SECONDARY SCHOOLS

Student performance



Mathematics

1. Australia's performance and international PISA ranking has **declined in maths**



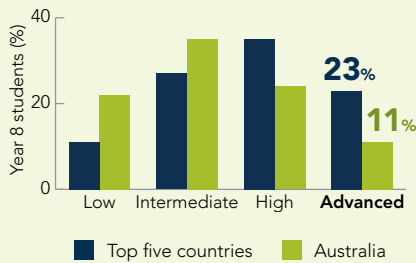
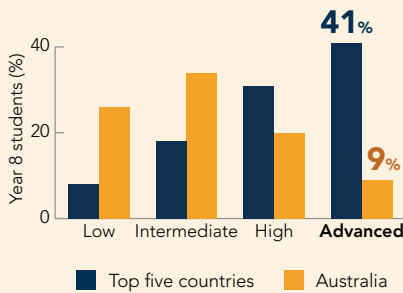
Science



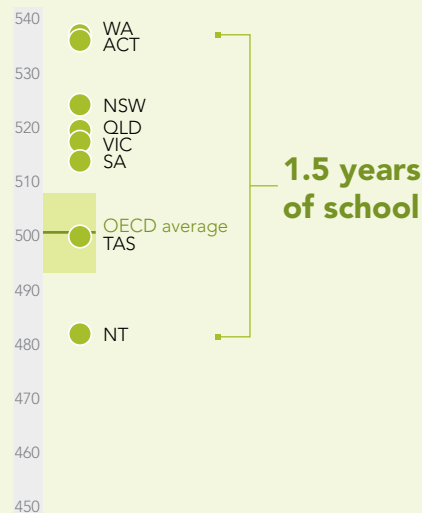
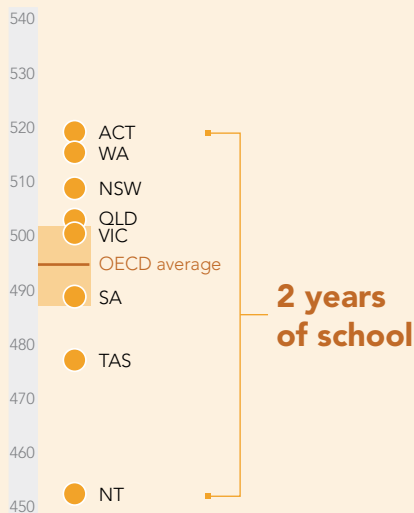
Australia's international PISA ranking has **declined in science**



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

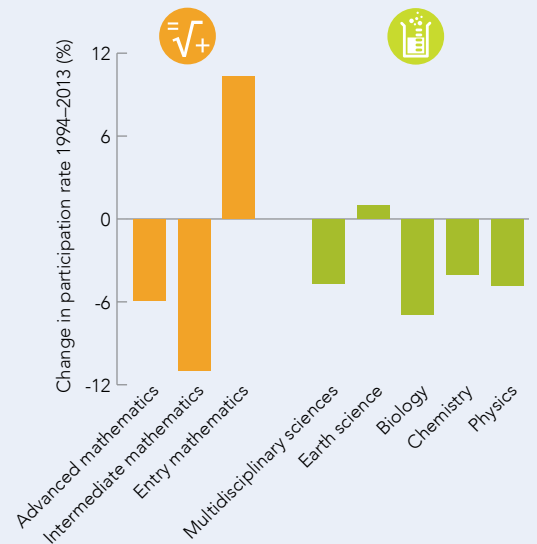


3. PISA performance in **maths and science varies by state or territory**, with significant differences between highest and lowest equivalent to...



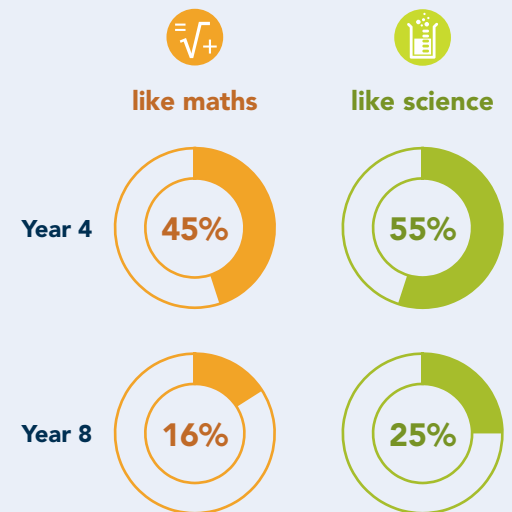
Student participation

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



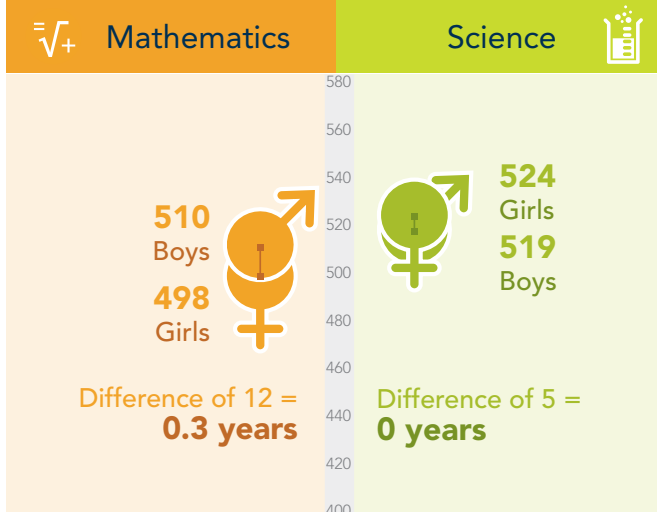
Only **1 in 10** students completes advanced **maths** in Year 12

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

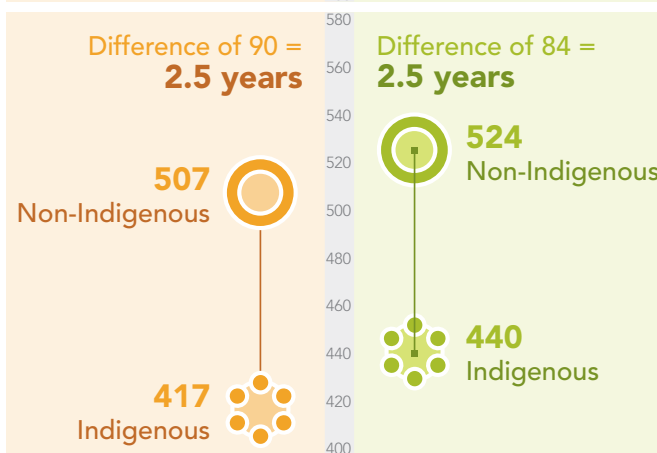


Student performance – PISA 2012 scores

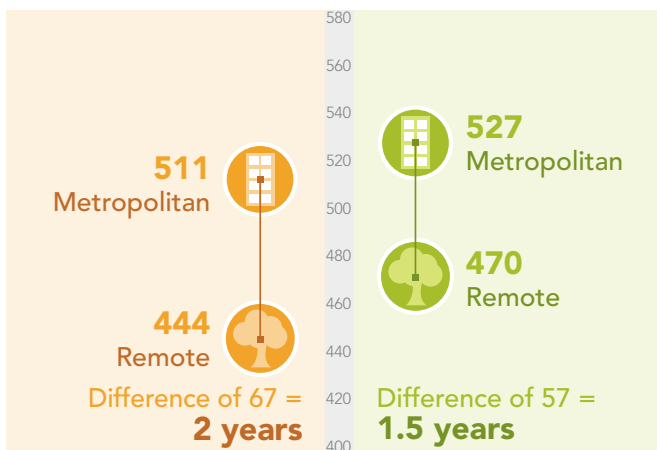
4. Boys outperformed girls in **maths**, but were about the same in **science**



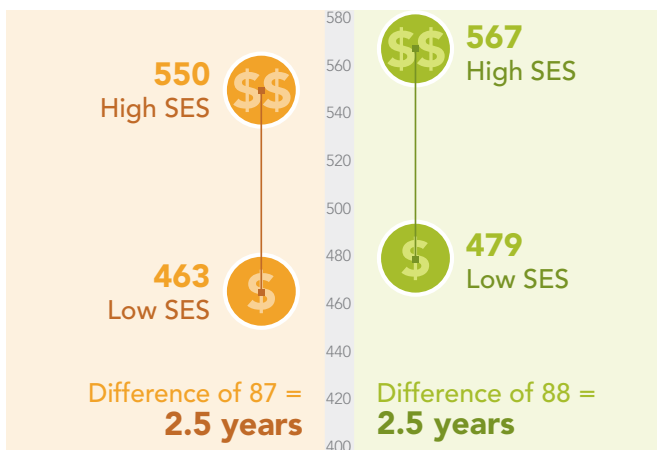
5. The difference between Indigenous and non-Indigenous student performance was equivalent to about 2.5 years of schooling



6. Students in metropolitan areas significantly outperformed students in remote Australia, equivalent to 1.5–2 years of schooling

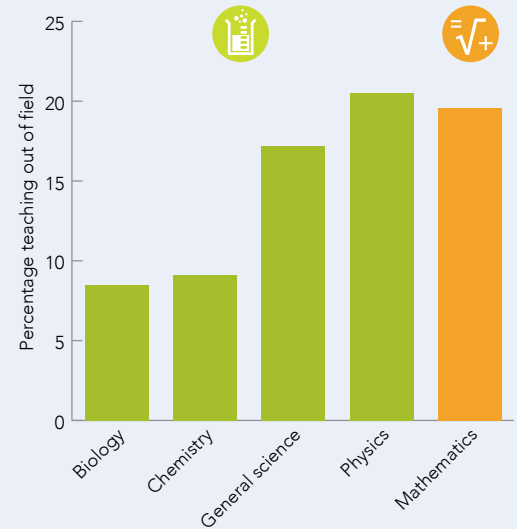


7. Students from high socio-economic status (SES) backgrounds significantly outperformed those from low SES backgrounds



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

