

“Mathematics and Statistics: Critical skills for Australia’s future”, a National Strategic Review of the Mathematical Sciences in Australia, the Australian Academy of Science, 2006.

- If Australia is to maintain its place in the technological world, it needs greater investment in its fundamental mathematical sciences infrastructure.
- Mathematical research in Australia is becoming increasingly narrowly focused.
- The number of mathematics and statistics students and lecturers is critically low.
- Mathematicians and statisticians are not teaching all the university courses in mathematics and statistics.
- Not enough trained mathematics teachers are entering the high school system. Australian students are abandoning higher-level mathematics in favour of elementary mathematics.
- The report comes up with 5 key recommendations:
 1. Significantly increase the number of university graduates with appropriate mathematical and statistical training
 2. Broaden the mathematical sciences research base
 3. Identify, anticipate and meet industry needs for a pool of tertiary-trained expert mathematicians and statisticians
 4. Ensure that all mathematics teachers in Australian schools have appropriate training in the disciplines of mathematics and statistics to the highest international standards
 5. Encourage greater numbers of high school students to study intermediate and advanced mathematics