



Mathematical exploration checklist

Work through this checklist to confirm that you have done everything that you can to make your exploration successful.

- Does your exploration have a title?
- Have you ensured your exploration does not include any identifying features—for example, your name, candidate number, school name?
- Does your exploration start with an introduction?
- Have you clearly stated your aim?
- Does your exploration answer the stated aim?
- Have you used double line spacing and 12-point font?
- Is your exploration 12–20 pages long?
- Have you cut out anything that is irrelevant to your exploration?
- Have you checked that you have not repeated lots of calculations?
- Have you checked that tables only contain relevant information and are not too long?
- Is your exploration easy for a peer to read and understand?
- Is your exploration logically organized?
- Are all your graphs, tables and diagrams correctly labelled and titled?
- Are all graphs, tables and diagrams placed appropriately and not all attached at the end?
- Have you used appropriate mathematical language and representation (not computer notation, eg *, ^, etc)?
- Have you used notation consistently through your exploration?
- Have you defined key terms (mathematical and subject specific) where necessary?
- Have you used appropriate technology?
- Have you used an appropriate degree of accuracy for your topic or exploration?
- Have you shown interest in the topic?
- Have you used original analysis for your exploration (eg simulation, modelling, surveys, experiments)?
- Have you expressed the mathematical ideas in your exploration in your own way (not just copy-and-pasted someone else's)?
- Does your exploration have a conclusion that refers back to the introduction and the aim?
- Do you discuss the implications and significance of your results?
- Do you state any possible limitations and/or extensions?
- Do you critically reflect on the processes you have used?
- Have you explored mathematics that is commensurate with the level of the course?
- Have you checked that your results are correct?
- Have you clearly demonstrated understanding of why you have used the mathematical processes you have used?
- Have you acknowledged direct quotes appropriately?
- Have you cited all references in a bibliography?
- Do you have an appendix if one is needed?