

Appendix B: Assessment Criteria Guidelines

Content

- 3 A mathematical strategy relevant to the activity has been correctly applied throughout the solution.
- 2 A mathematical strategy relevant to the activity has been applied with some errors.
- 1 The strategy selected is inappropriate to solving the problem.

Communication

- 3 The solution of the problem is logical and uses appropriate mathematical terminology and notation. The presenter shows good understanding of the ideas. The steps of the solution have been well documented.
- 2 The solution of the problem lacks some coherency, but not serious enough to affect its quality. The presenter shows adequate understanding of most of the main ideas. The documentation is somewhat sparse, but adequate.
- 1 The presenter has made little effort to communicate the solution of the problem in an organized fashion. Internal coherency is lacking. Documentation of the steps of the solution is poor.

Presentation

- 3 The student's writing is legible. The student presents the solution in a tidy and organized manner, using appropriate English throughout. The presentation is a good record of the solution.
- 2 The solution suffers somewhat from untidiness, disorganization, or poor use of language.. The presentation is a weak record of the solution.
- 1 The student has made little effort to use appropriate language and has not given any thought to a neat and organized presentation of the solution. The presentation is a poor record of the solution of the problem.

Use of Technology

- 3 The use of the technology is relevant to the solution, and enhances the solution significantly.
- 2 Relevant use of the technology is made, but some errors are made in using it.
- 1 Limited use of the technology is made, and this adversely affects finding a solution to the problem.

Results

- 3 The calculations are largely accurate.
- 2 The calculations are somewhat accurate.
- 1 The calculations are barely accurate.

Conclusions

- 3 The reasonableness and/or possible limitations of the results have been thoroughly considered.
- 2 A superficial analysis of the reasonableness of the results is displayed.
- 1 Hardly any consideration or evaluation of the results have been given.

Extensions

- 3 Awareness of the implications of the solution and ways to expand upon the problem have been considered.
- 2 Either awareness of the implications of the solution or ways to expand upon the problem have been considered.
- 1 Little consideration to either of the above has been given.

Some of the above assessment criteria guidelines are modified from the guidelines for portfolio and project work of the International Baccalaureate Organization.