International Baccalaureate
Baccalauréat International Bachillerato Internacional

General guidance
How to use this teacher support material
Teacher responsibilities
Skills and strategies
required by students
Developing the
exploration
Use of technology
Planning
Authenticity
Assessment criteria
Record keeping

Assessed student
work

## Overview

Examples of
explorations
Example 1
Example 2
Example 3
Example 4
Example 5
Example 6
Example 7
Example 8
Example 9
Example 10
Example 11
Example 12
Example 13
Example 14
Example 15
Example 16
Example 17
Example 18
Example 19
Example 20
Example 21
Frequently asked questions

## Assessment

| Criterion | A | B | C | D | E <br> (SL) | E <br> (HL) | Total <br> (SL) | Total <br> (HL) |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Achievement <br> level <br> awarded | 1 | 1 | 1 | 1 | 2 | 1 | 6 | 5 |
| Maximum <br> possible <br> achievement <br> level | 4 | 3 | 4 | 3 | 6 | 6 | 20 | 20 |

## Comments

## Criterion A: Communication

A1-The exploration contains an aim, introduction and rationale but it is not totally coherent or organized. It is extremely difficult to follow the mathematics without prior knowledge of the problem.

## Criterion B: Mathematical presentation

B1-Whilst there are different forms of mathematical presentations in the work, these are often not used appropriately. Key terms are not defined and there are notational errors.

## Criterion C: Personal engagement

C1—The work seems to be taken from one source (which is referenced as "Kolchin et al. (1978)"). The student does not make the problem his / her own or demonstrate any independent thinking or address any personal interest by presenting their own mathematical ideas. The student presented some practical applications in the conclusion which would have given an opportunity to demonstrate personal engagement had they been explored.

## Criterion D: Reflection

D1-There is some superficial reflection at the end of the exploration. This seems to be more of a conclusion rather than a meaningful reflection on the work presented in the exploration.

## SL Criterion E: Use of mathematics

E2-Some relevant mathematics is used but the student does not demonstrate sufficient understanding to warrant a higher achievement level.

## HL Criterion E: Use of mathematics

E1-Some relevant mathematics is used but the student does not demonstrate sufficient understanding to warrant a higher achievement level.
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