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> $(\mathbf{S L})$ | E <br> $(H L)$ | Total <br> $(\mathbf{S L})$ | Total <br> $(H L)$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Achievement <br> level <br> awarded | 3 | 1 | 3 | 1 | 5 | 3 | 13 | 11 |
| Maximum <br> possible <br> achievement <br> level | 4 | 3 | 4 | 3 | 6 | 6 | 20 | 20 |

## Comments

## Criterion A: Communication

A3-The exploration is complete and well organized but lacks some coherence.

## Criterion B: Mathematical presentation

B1—Key terms like the law of total probability is not defined. Many examples of notation that is confusing or ill-defined.

## Criterion C: Personal engagement

C3-There is significant evidence of personal engagement especially when using Geogebra to simulate the problem. The student appears to have made the exploration their own and explored variations of the Monty Hall Problem.

## Criterion D: Reflection

D1—The student attempts to reflect on his / her work by comparing results from simulation with the theoretical model. This however is superficial and not meaningful.

## SL Criterion E: Use of mathematics

E5-Relevant mathematics commensurate with the level of the course is used. The mathematics is mostly correct and a good attempt was made to develop alternate games demonstrating good knowledge and understanding.

## HL Criterion E: Use of mathematics

E3-Relevant mathematics commensurate with the level of the course is used. The mathematics is mostly correct and a good attempt was made to develop alternate games demonstrating good knowledge and understanding, however the work lacked the sophistication to achieve the higher level in this criterion.

