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 | 2 | 3 | 3 | 2 | 6 | 4 | 16 | 14 |
| Maximum <br> possible <br> achievement <br> level | 4 | 3 | 4 | 3 | 6 | 6 | 20 | 20 |

## Comments

## Criterion A: Communication

A2-The work shows some coherence but lacks an aim and rationale. It is important for students to define a clear focus and / or question for their exploration. Labelling of diagrams is important. Penalized here and not in criterion B.

## Criterion B: Mathematical presentation

B3-Representing spherical geometry is a challenge. The student's diagrams and photographs are good examples of appropriate mathematical presentations.

## Criterion C: Personal engagement

C3-The student engaged with unfamiliar mathematics and generated his / her examples. The student made the work their own by practically examining their results on a basketball. This is evidenced in the photographs and calculations included in the exploration.

## Criterion D: Reflection

D2—Reflection is done throughout the exploration. The examination of error boundaries is a good example of meaningful reflection. The conclusion includes reflection but it is not critical.

## SL Criterion E: Use of mathematics

E6-The mathematics is commensurate with the level of the course despite not being on the syllabus. Thorough knowledge and understanding is demonstrated.

## HL Criterion E: Use of mathematics

E4-The mathematics is commensurate with the level of the course despite not being on the syllabus. It is correct and sophisticated but lacks a degree of rigour and precision.

