

Assessed student work

# **Example 12: Horse Jumping**

#### 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	В	С	D	E (SL)	E (HL)	Total (SL)	Total (HL)
Achievement level awarded	3	2	4	1	5	2	15	12
Maximum possible achievement level	4	3	4	3	6	6	20	20



Student work (PDF)



**Annotated** student work (PDF)

# Comments

## **Criterion A: Communication**

A3—Coherent and well organized, however some of the information is not focused on the problem in hand and more complete explanation of results would have led to the top attainment level..



Comments

# Criterion B: Mathematical presentation

B2—Excellent sourcing of pictures at point of reference and a complete bibliography is given. Good use of photographs to generate parabolas for the development of the mode, however, the mathematics itself was not well presented and not all variables were explicitly defined. Graphs need to be labelled and units should be used for a real world problem such as this.

# Criterion C: Personal engagement

C4—The work contained an abundance of personal engagement. The student showed initiative in using still photographs to plot curves. The interest of the student in the topic studied is evident throughout.

### **Criterion D: Reflection**

D1—The student reflects on a regular basis, however this is either limited or superficial. The significance of the results in a real life context is not explored in any depth.

### SL Criterion E: Use of mathematics

E5-Relevant mathematics is used to find the equation of a parabola, it is mostly correct and good knowledge and understanding is demonstrated.

### **HL Criterion E: Use of mathematics**

E2—Plotting a parabola to a set of points is correct, however in the context of the problem this does not lead to a meaningful solution. The student starts to comment on the angle of attack but does not explore this concept, since this is effectively a projectile motion problem.

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