

Example 12: Microwave popcorn

Subject: Mathematics: analysis and approaches and mathematics: applications and interpretation

Paper component: Internal assessment, standard level (SL) and higher level (HL)

Assessment

Criterion	A	B	C	D	E (SL)	E (HL)	Total (SL)	Total (HL)
Achievement level awarded	4	4	3	3	6	6	20	20
Maximum possible achievement level	4	4	3	3	6	6	20	20

Comments

Criterion	Comments
A Presentation	The exploration is easy to read and is concise.
B Mathematical communication	Consistent appropriate use of mathematical communication. The student uses different forms of mathematical language and representations excellently.
C Personal engagement	The student has personalized the problem and one can see authentic personal engagement throughout the exploration.
D Reflection	Critical reflection is present as the exploration is developed. Although the student could have reflected about the fact that a sine function will also have a maximum before actually using it, this did not detract from the development and flow of the exploration.
E Use of mathematics SL	The mathematics commensurate with the level of the course and also goes beyond the level of the course. The student demonstrates knowledge and understanding throughout.
E Use of mathematics HL	The mathematics is commensurate with the level of the course. The mathematics reflects both sophistication and rigour. The student demonstrates thorough understanding throughout.
General comments	