

Mathematics 5 SN

Dr Rossy

Situational Problem – COMPETENCY 1

Value – 30%

Objective: to investigate, design and produce a rule-based plan for a 100 metre obstacle course scaled on a Cartesian plane using functions and relations from this course within a piece-wised format.

Groups: 4

Delivery: Google Drive, before the end of each term

Objectives: to associate and blend mathematical theory within an authentic and practical context, to work within a realistic group setting and to engage in an extended self created problem-based project.

Duration: A 3-part project to be completed over the entire school year-

Term 1: Absolute value; square root; greatest integer; rational; quadratic

Term 2: Exponential; logarithmic; linear

Term 3: Sinusoidal (sin, cos, tan); parabolas (2); hyperbolas (2); circle; ellipses (2)