**Maths (Advocate: Thiago Viana)**

**P1 Calculate the greatest common divisor and least common multiple of a given pair of numbers.**

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| This link will show you where I explain the Lowest common multiple and the Greatest common divisor and it contains an example of how to carry out each one too.  <https://github.com/George-Haughton/Maths-mapping-document#lowest-common-multiple> |

**P2 Use relevant theory to sum arithmetic and geometric progressions.**

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| This link will take you to my Github where I explained what Arithmetic and Geometric Progression are with an Algorithm that will calculate them both.  <https://github.com/George-Haughton/Maths-mapping-document#arithmetic-and-geometric-progression> |

**P3 Deduce the conditional probability of different events occurring within independent trials.**

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| This link will show you a complete definition of what Conditional probability is, and will also take you through how to complete a few examples of Conditional probability.  <https://github.com/George-Haughton/Maths-mapping-document#conditional-probability> |

**P4 Identify the expectation of an event occurring from a discrete, random variable.**

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| This link will take you to a Repo on my Github that will contain an example of an expectation of an event occurring from a discrete, random variable, that being ‘what is the probability of a random integer being divisible by 5?’  <https://github.com/George-Haughton/Maths-mapping-document#what-is-the-probability-of-a-random-integer-being-divisible-by-5> |

**P5 Identify simple shapes using co-ordinate geometry.**

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| This link will take you to a repo containing definitions and examples of formulas and shapes that are all apart of Co-ordinate geometry.  <https://github.com/George-Haughton/Maths-mapping-document#co-ordinate-geometry> |

**P6 Determine shape parameters using appropriate vector methods.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement  TO DO (you can leave it blank now, we are going to address this un future sessions) |

**P7 Determine the rate of change within an algebraic function.**

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**P8 Use integral calculus to solve practical problems involving area.**

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**M1 Identify multiplicative inverses in modular arithmetic.**

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**M2 Calculate probabilities within both binomially distributed and normally distributed random variables.**

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**M3 Evaluate the coordinate system used in programming a simple output device.**

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| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement  You did this in the project 1. You used coordinates to create a shape (or image) and made this shape(or image) follow the mouse. The mouse is the input and the shape(or image) is the output element. And you had to use coordinates to implement them. All you need to do is describe this process and provide a link to your project 1. |

**M4 Analyse maxima and minima of increasing and decreasing functions using higher order derivatives.**

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**D1 Produce a detailed written explanation of the importance of prime numbers within the field of computing.**

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**D2 Evaluate probability theory to an example involving hashing and load balancing.**

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**D3 Construct the scaling of simple shapes that are described by vector coordinates.**

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**D4 Justify, by further differentiation, that a value is a minimum.**

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