**Cultural Capital Opportunities**

**Subject: Mathematics**

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|  | Spiritual | Moral | Social | Cultural | Personal Development | Physical Development |
| Year 7 | Concept of infinity  Prime numbers | Always supportive of peers attempts  Fairness in probability | Peer assessment  Finance – working with decimals Percentages, VAT Money calculations  Recipes  Ratio and Proportion  Pair and group activities  Stand and speak to explain methods  Mistakes celebrated  Games lunch time club | Comparative bar charts  Ratio  STEM after school club | Finance – working with decimals Percentages, VAT, Money calculations Recipes  Ratio and Proportion Extra Numeracy (for some)– ensures they are numerate  Mind set  Resilience  Mastery  Spaced Retrieval | Measuring Constructing Triangles  Experimental probability  Using a calculator  Collecting data  Transformations  Loop cards around the room |
| Year 8 | Concept of infinity Pythagoras | Ethics of gambling | Peer assessment Finance – working with decimals Percentages, VAT  Money calculations  Recipes  Ratio and Proportion  Pair and group activities  Stand and speak to explain methods  Mistakes celebrated  Games lunch time club | Currency  Compare data  STEM after school club | Finance – working with decimals Percentages, VAT, Money calculations  Recipes  Best buys  Ratio and Proportion  Extra Numeracy (for some)– ensures they are numerate  Mind set  Resilience  Spaced Retrieval | Modelling real life situations Measuring angles and lines  Plans and elevations  Area and shapes  Pythagoras  Read maps and scale drawings  Straight line graphs |
| Year 9 | Algebraic Proof Concept of infinity Pythagoras | Pay day loans  Upper and Lower bounds  Sampling methods | Peer assessment  Finance – working with decimals Percentages, VAT Money calculations  Recipes  Ratio and Proportion Statistical graphs  Pair and group activities  Stand and speak to explain methods  Mistakes celebrated  Games lunch time club | Comparative bar charts  Scatter diagrams Ratio  Venn diagrams  STEM after school club | Finance – working with decimals Percentages, VAT, Money calculations Recipes  Ratio and Proportion  Statistical Graphs Extra Numeracy (for some)– ensures they are numerate  Mind set  Resilience  Spaced Retrieval | Measuring Speed, distance, time  Interpreting graphs  Angles  Trigonometry and Pythagoras Calculating percentages  Pie Charts  Loci |
| Year 10 | Concept of infinity Pythagoras | Ethics of gambling  Accuracy and bounds | Peer assessment  Comparing and describing populations  Sampling  Simple and Compound interest  Best buys  Savings Interest  Compound measures Conversions  Pair and group activities  Stand and speak to explain methods  Mistakes celebrated | Ratio  Exchange rates Sampling  Interpreting data  STEM after school club | Compound interest  Best buys  Savings Interest  Compound measures Conversions  Mind set  Resilience  Spaced Retrieval  Extra Numeracy (for some)– ensures they are numerate | Box Plots  Transformations  Loci  Averages |
| Year 11 | Concept of infinity Pythagoras | Pay day loans | Peer assessment Finance – working with decimals Percentages, VAT Money calculations Recipes Ratio and Proportion Statistical graphs  Pair and group activities  Stand and speak to explain methods  Mistakes celebrated | Ratio Exchange rates Sampling | Finance – working with decimals Percentages, VAT Money calculations Recipes Ratio and Proportion Statistical graphs Mind set  Resilience  Spaced Retrieval  Extra Numeracy (for some)– ensures they are numerate | Trigonometry and Pythagoras Bearings  Constructions  Box Plots  Angles  Speed, distance, time Pie Charts  Further Maths offered |