**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 attemptsFairness in probability | Peer assessment Finance – working with decimals Percentages, VAT Money calculations Recipes Ratio and Proportion Pair and group activitiesStand and speak to explain methodsMistakes celebrated Games lunch time club | Comparative bar charts RatioSTEM 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 ResilienceMasterySpaced Retrieval | Measuring Constructing Triangles Experimental probability Using a calculator Collecting dataTransformationsLoop cards around the room |
| Year 8  | Concept of infinity Pythagoras | Ethics of gambling | Peer assessment Finance – working with decimals Percentages, VAT Money calculationsRecipesRatio and Proportion Pair and group activitiesStand and speak to explain methodsMistakes celebratedGames lunch time club | CurrencyCompare dataSTEM after school club | Finance – working with decimals Percentages, VAT, Money calculations Recipes Best buysRatio and Proportion Extra Numeracy (for some)– ensures they are numerate Mind set ResilienceSpaced Retrieval | Modelling real life situations Measuring angles and linesPlans and elevations Area and shapes PythagorasRead maps and scale drawingsStraight line graphs |
| Year 9  | Algebraic Proof Concept of infinity Pythagoras | Pay day loansUpper and Lower boundsSampling methods | Peer assessment Finance – working with decimals Percentages, VAT Money calculations Recipes Ratio and Proportion Statistical graphs Pair and group activitiesStand and speak to explain methodsMistakes celebratedGames lunch time club | Comparative bar charts Scatter diagrams RatioVenn diagramsSTEM after school club | Finance – working with decimals Percentages, VAT, Money calculations Recipes Ratio and ProportionStatistical Graphs Extra Numeracy (for some)– ensures they are numerate Mind set ResilienceSpaced Retrieval | Measuring Speed, distance, time Interpreting graphsAngles Trigonometry and Pythagoras Calculating percentagesPie ChartsLoci |
| Year 10  | Concept of infinity Pythagoras | Ethics of gamblingAccuracy and bounds | Peer assessment Comparing and describing populationsSampling Simple and Compound interest Best buysSavings Interest Compound measures ConversionsPair and group activitiesStand and speak to explain methodsMistakes celebrated | Ratio Exchange rates SamplingInterpreting dataSTEM after school club | Compound interest Best buys Savings Interest Compound measures Conversions Mind setResilienceSpaced RetrievalExtra Numeracy (for some)– ensures they are numerate | Box Plots Transformations LociAverages |
| Year 11 | Concept of infinity Pythagoras | Pay day loans | Peer assessment Finance – working with decimals Percentages, VAT Money calculations Recipes Ratio and Proportion Statistical graphsPair and group activitiesStand and speak to explain methodsMistakes celebrated | Ratio Exchange rates Sampling | Finance – working with decimals Percentages, VAT Money calculations Recipes Ratio and Proportion Statistical graphs Mind set ResilienceSpaced RetrievalExtra Numeracy (for some)– ensures they are numerate | Trigonometry and Pythagoras BearingsConstructions Box Plots Angles Speed, distance, time Pie ChartsFurther Maths offered |