Term	MYP1	MYP2	MYP3	MYP4	MYP5
Michaelmas HT1	how much you have deciphered about the alien society Literacy: Explaining through writing how we can tell the level of development by the level of maths Spech: students encouraged to do micro teaching at board Numeracy: Properties of number Internationalism/British values: Respect	decimal system, multiplication, division, inequalities, BIDMAS and number sequences Project: Explore how ants make their nests Assessment Format: Extended project with final presentation Literacy: Description of ant colony Speech: students encouraged to explain vocabulary Numeracy: Properties of number and how number sequences can be used to describe growth sequences Internationalism/British values: Rule of	Complex BIDMAS, time calculations, rounding Project: Create your own number system to code messages using the knowledge of the ancients Assessment Format: Extended project with final presentation Literacy: Written description of number	Applying number to the real world Contents: In this section you will explore standard form, accuracy and reading scales Project: Develop a lunar fun fair and create a plan view, profit and loss account Assessment Format: Business plan written Literacy: writing business plan Speech: students encouraged to do micro teaching at board Numeracy: Applying scale drawing, costing, percentages and ratio Internationalism/British values: Individual Liberty - Developing innovative ideas	Applying trigonometry in architecture Contents:In this section you will explore the use of Trigonometry to solve shape problems including the sine and cosine rule. Project: Work out whether a new greenhouse meets the sun requirements to make it successful. Assessment Format: Architectural Project report Literacy: Describe the methods used to make the calculations Speech: Students verbally explain how to measure tree height Numeracy: Using trigonometry, scale drawing and computer modelling Internationalism/British values: Understanding how the built environment is affected by the natural environment
Cross Curricular	Humanities	Science, Humanities	English, Humanities	English, Humanities	Science, Humanities
Michaelmas HT2	and division methods including decimal operations. You will also look at he four fraction operations Project: Teach a lesson on fractions exploring physical ways of explaining problems. Assessment Format: Teach a lesson Literacy: Verbal communication for clarity	Calculations and livelihood Contents: You will expand your long division methods and look at fraction operations and percentages Project:Make a successful horse stable business Assessment Format: Extended project including calculations and scale drawings Literacy: Description of your horse stable Numeracy: Percentages, profit and loss Internationalism/British values: Understanding the processes underlying business	calculation Contents: In this section you will consolidate your ratio, percentage and fraction work so you can effectively use it in real life Project: Build your own social media company, write a business report on its success Assessment Format: Extended project and presentation Literacy: Written business report Speech: Micro teaching at the board at least one lesson Numeracy: Applied percentages to financial growth		Complex Patterns Contents: In this section you will expand your use of linear graphs and quadratic graphs so that you can points where they intersect. Project: Develop a missile defence system to a fixed budget Assessment Format: Extended project and presentation Literacy: Written presentation Speech: Group sharing of research findings Numeracy: Applied graphs, speed, time distance, equations Internationalism/British values: Understanding the need for defence at time of conflict
Cross Curricular	English	Humanities, Science, English	Humanities, English	English, Humanities	Humanities, Science, English

Term	MYP1	MYP2	MYP3	MYP4	MYP5
Lent HT3	Selecting the perfect spry - Finding Connections Contents: In this section you will learn how to collect data, present it in bar and line graphs. You will also compare results by calculating averages like mean, mode, median and range Project: Develop a testing regime for would be spies. This involves experiments and graph work. Assessment Format: Create a suggested spy test based on your experiments and data analysis Literacy: Write report Speech: Discussions on suitable criteria for a spy based on individual research Numeracy: Data calculations and graphical analysis Internationalism/British values: Understanding the physical difference between people	Contents: In this section you will learn about presenting data through pie charts and scatter graphs. You will predict future results based n data correlations. Project: Make a case to the UN for saving Fuerteventura from sinking Assessment Format: Visual and verbal presentation Literacy: verbal and written presentation Speech: Verbal presentation to UN Numeracy: Statistical analysis of climate change data Internationalism/British values:	Contents: In this section you will expand your ability to look at data correlations and analyse averages to test results. You will use ICT to determine the equation for a correlation and look at different types of data fitting methods. Project: Analyse a pandemic and come up with a policy for the government Assessment Format: Create a policy document Literacy: Writing a policy based on statistical analysis	about cumulative frequency graphs and how to compare distributions to make clear decisions. Project: Develop the infectious disease budget for Lesotho. Present it in the format in a reasoned report Assessment Format: Extended project and report uiteracy: report writing Speech:Discussion as a group on the	Complex Patterns continued Contents: You will continue with your graphical algebra and also use speed, distance and time calculations to solve missilie problems. Project: Develop a missile defence system to a fixed budget Assessment Format: Extended project and presentation Literacy: Written presentation Speech: Verbal explanations on where your claculations may be improved Numeracy: Applied graphs, speed, time distance, equations Internationalism/British values: Understanding the need for defence at time of conflict
Cross Curricular	PHE, English, Science	Humanities, English, DRAMA	Humanities, English, Science	Humanities, Science, English	Humanities, Science, English
Lent HT4	theoretical probability and how to estimate expected outcomes Project: Analyse crooked games of chance and then build your own Assessment Format: Report and creation of	Understanding Probability Contents: In this section you will look at probability operations which are combined such as AND OR. You will see how these are used in computer games to create results Project: Complete project from HT3 Literacy: verbal and written presentation Speech: Micro teaching at the board Numeracy: Statistical analysis of climate change data Internationalism/British values: Understanding the impact of climate change	Contents: In this section you will learn about how to solve all types of linear equations using a balancing method. You will also learn how to manipulate algebra through the indices rules. Project: Create a festival profit/loss spreadsheet and business plan for 10 festivals. Assessment Format: Extended project with final presentation Literacy: written presentation Speech: Micro teach at board an aspect of	Project: Create graphical artwork by manual plotting graphs Assessment Format: Graphical artwork and assessment Literacy: review of artwork Speech: Aesthetic discssions on art and maths as a group Numeracy: Graph plotting Internationalism/British values: Understanding the interplay of maths and art	Electrifying Gloucester - Using Algebra & ICT to model the real world Contents: In this section you will learn how to build complex algebraic equations into spreadsheets to determine the amount of energy you can produce. You will learn methods of optimising the results and graphically presenting them Project: Create a complex model of the electrification of Gloucester on a spreadsheet and then complete a presentation Assessment Format: Extended project and report Literacy: review of artwork Speech: Research share discussions Numeracy: Graph plotting Internationalism/British values: Understanding the importance of creating technology change to solve future problems
Cross Curricular	Humanities	Humanities, English, DRAMA	Humanities, Design	Art	Science, Humanities

Term	MYP1	MYP2	MYP3	MYP4	MYP5
Summer HT5	Contents: In this section you will learn the	Run your own festival - Algebra Contents: In this section you will learn how to substitute and manipulate algebraic expressions. You will learn how to solve basic equations and fraction equations by reverse methods and balancing. Project: Develop all the equations for running your own festival and then program them into a spreadsheet, Create a scale drawing of a 5000 strong festival Assessment Format: spreadsheet and scale drawing Literacy: summary report Numeracy: Algebra and spreadsheet Internationalism/British values: How entertainment is crucial to a society	Modelling the world with rules continued Contents: In this section you will learn how to factorise and expand algebraic equations. you will also learn how to plot linear and quadratic equations Project: Create a festival profit/loss spreadsheet and business plan for 10 festivals. Assessment Format: Extended project with final presentation Literacy: written presentation Numeracy: Apply algebra to make a complex profit a loss spreadsheet Internationalism/British values: Understanding how the entertainment business functions in a society	Contents: In this section you will learn how to solve quadratic equations by factorising and using the formulae method. You will also look at solving simple simultaneous equations. Project: Create an effective lesson in teaching a complex part of algebra Assessment Format: Presentation Literacy: Verbal communication Speech:Learn how to explain complex concepts verbally Numeracy: Algebra Internationalism/British values:How	how to model in 3D and take measurements off the drawing. You will also develop your volume/area calculations so that you can calculate complex shapes Project: Build a model and cost an olympic village Assessment Format: Extended
Cross Curricular	Science, Humanities	English and Humanities	Humanities	PSHE , English	PHE, Science
Summer HT6	building blocks of area, volume and geometry	Can we save the world by planting trees shape Contents: In this section you will expand your knowledge of shape learning skills in geometry, area and volume to solve real life problems. Project: Calculate whether the world can be saved by planting trees Assessment Format: Extended report and presentation Literacy: report writing Speech: Moral discussions on what effort you are prepared to make for climate change Numeracy: Area, volume and density calculations Internationalism/British values: Understanding natural solutions to climate change	How shape calculations are used in war Contents: In this section you will master all the aspects of how to calculate volume, area, loci and apply it to complex problems. You will look at how these skills can apply to conflict situations. Project: Explore through a series of calculations the important parts of world war 2 create a report of your mission Assessment Format: Report and series of calculations Literacy: report writing Speech:Micro teaching of shape concepts at board Numeracy:Shape calculation, Internationalism/British values: How conflict arises and is resolved	Shape 4 Contents: In this section you will be discovering the wonder of trigonometry and how it can be used to solve navigation. Project: You have to plan your journey across the atlantic using all your shape calculation skills Assessment Format: Extended project and report Literacy: report writing Speech: Discussions of historical maths and how they would do it? Numeracy: Shape calculations Internationalism/British values: Understanding the history of British	Building the Olympics - Shape - continued Contents: As you progress to the final project you will be pulling all your maths together - using spreadsheets, learning complex estimating techniques and validating results Project: Build a model and cost an olympic village Assessment Format: Extended project and report Literacy: report writing Speech: Verbal presentation of project to peer group and providing feedback Numeracy: Shape, costing and scale drawing Internationalism/British values: How sport brings us together
Cross Curricular	English, Art, Design	Science, Humanities	Humanities, Science	Humanities, Science, English	PHE, Science