Maths Topic Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Shopping and money	Planning a party	Food and catering	Carrot Club (Cross curricular STEM)	Animals, Nature and Our World	Animals and Nature and Our World
Year 8	Shopping and money	Planning a party	Design a bedroom	Gardening	Sports and hobbies	Sports and hobbies
Year 9	Shopping and money	Planning a party	Food and catering	Holidays and Travel	Animals, Nature and Our World	Animals, Nature and Our World
Year 10	Shopping and Money	Food, catering and planning a party	Design a Bedroom	Begin accreditations (Food and Catering)	Sports and hobbies (Personal Finances)	Sports and hobbies
Year 11 (ALG)	Shopping and money	Food, catering and planning a party	Accreditation Finalisation (8 components)		Accreditation And Personal Finance (Lifeskills)	Enrichment: Maths in Our World, Animals and Nature

REEC Long Term Plans
Maths

	Autumn Year 1	Spring Year 1	Summer Year 1	Autumn Year 2	Spring Year 2	Summer Year 2
Topic Title	Measuring Distance and Length	Measuring Weight for Employment and Independent Living (Food and catering)	Measuring Capacity and Temperature	Developing Time Skills for Employment and Independent Living	Developing Money Skills for Employment and Independent Living	Developing Number Skills for Employment and Independent Living
Topic Overview	Be able to read and interpret distance in everyday situations. Identify instruments used to measure distance and length. Select units of length when using measure in everyday situations. Record measurements in decimal notation. Estimate lengths to a reasonable degree of accuracy in everyday situations. Estimate distance in miles when giving directions.	Read and record weights in decimal notation using metric measurement. Select metric units of weight for everyday items. Order weights in decimal notation with up to two decimal places. Estimate the weight of everyday items in decimal notation using metric measurements.	Be able to estimate, measure and compare capacity. Select appropriate units of capacity for everyday items Estimate the capacity of containers. Measure the capacity of containers by reading labelled divisions on a measuring jug. Know and use units of temperature. Be able to use units of temperature in practical contexts. Select the temperature for practical contexts, using the correct unit of temperature.	Recognise day, month and year in common date formats. Tell the time in five minute intervals on analogue and digital clocks using am & pm. Read the date on the calendar. Be able to use time in practical situations. Use time and date in different everyday situations.	Identify coins and notes needed to pay for multiple items. Identify change required when paying for multiple items. State what each shop specialises in. State the differences between retail outlets. Know items needed to furnish a home. Choose and give reasons for different furnishings and domestic appliances. Identify delivery options for large items. List appropriate behaviour when in shops. Use correctly: Lifts, escalators and pay points. State ways of staying safe.	Know the difference between essential and non-essential spending. Develop prioritising methods when budgeting. Work within a personal budget over a given period of time. State examples of how a personal budget may change over a lifetime. Functional skill assessments based on individuals: managing a personal budget, locating and purchasing goods, checking change and communicating with relevant people.
Components (1-8 per trackers)	A) Number B) Money C) Measurement D) Geometry E) Ratio and fractions	A) Measurement B) Algebra/ problem solving C) Geometry D) Statistics E) Number and operations	A) Statistics B) Time/ Money C) Geometry D) Measurement E) Fractions , Decimals and Percentages	A) Time B) Number C) Operations D) Geometry E) Extension Algebra	A) Money B) Time C) Statistics D) Measurement E) Extension algebra	A) Ratio and fractions B) Money C) Number D) Operations E) Extension algebra

Maths Topic Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1 SFI	Shopping, money and food (Number, money, weights and costings)		Design a bedroom. (Measuring lengths, budgets)		Sports and hobbies (Times, distances, speeds and leisure timetables, data collection)	
Year 2 SFI	Shopping, money and food (Number, money, weights and costings)		Travel and holidays (Costings, times, distances, temperatures)		Animals , nature and our world (Size and measurement, weights, data collections, time-zones, the environment, geometry)	
Year 3 SFI	Shopping, money and food (Number, money, weights and costings)		Gardening and horticulture (Measurements, temperature, costs, budgets, geometry)		Sports and hobbies (Times, distances, speeds and leisure timetables)	
Numeracy focus	**Understanding the value of money and what money is used for.**		**Spending money using coins and notes. Understanding change and ways to pay**.		**Recognising time through regular events, timetables and dates.**	
Component objectives can be tracked using the MSB programme of study on SIMS. Component 1 Number, Component 4 Money, Component 5 Time, Component 6 Measurement, Component 7 Geometry, Component 8 Statistics						

Maths Medium Term Plans Year 7

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Shopping and money	Planning a party	Food and catering	Carrot club	Animals and Nature	Animals and Nature
Topic Overview	Students will study units containing objectives which encourage them to develop their ***number*** and ***operation*** skills, in a real life context of shopping. (See Components 1 and 2.) They will learn about the variety of ***coins*** used in the UK and other countries and begin to understand the ***purchasing power*** of money. Focus will be on e***quivalence*** of monetary values, ***calculating change*** and also ***converting*** from pounds to pence and vice versa. (Component 4) Opening hours of supermarkets and shops can be used to begin developing "Time"skills.(Component 5)	Students will look at ***budgets*** and planning resources to create a party. They will look at ***costings*** and also decision making based on monetary calculations. They will also need to consider ***multiples and factors*** when purchasing items. (Components 1, 2 and 4). Tasks will be incorporated that look at basic ***fractions and ratios*** when sharing items such as pizzas. (Component 3). Students will also need to consider timings and also learn how to tell the ***time*** within this module. (Component 5) Students will look at various shapes used in packaging and decorations. (Component 7)	Students will study objectives which focus on ***measuring*** and comparing: weights, lengths and volumes. They will consider units of measurements for various items and choose the most appropriate ones. They will study ***recipes*** and how to apply ratio skills to calculate the amount of ingredients needed. (Component 6 and 2) They will also focus on "Time" and ***durations*** needed for cooking various dishes. Statistics (Component 8) can be applied to this unit by use of favourite foods.	A cross curricular project linked to Design and Technology will be completed to incorporate aspects of Number, Operations, Money , Measurement, Geometry and Time components. (See Carrot Club resources). **Holidays and travel (time permitting)** Students will look at various countries they may wish to visit and compare sizes and the distances from the UK. (Component 6) Temperatures and weather information can be ordered . Costings for a holiday can be made using internet or travel agent resources. (Component 6 and 4)	Students will look at various aspects of the Animal Kingdom and our planet to link skills in Science, Geography and Maths. They will study the weights and heights of various creatures. (Component 6) They will consider lifespans and gestation periods, converting between various timescales e.g. weeks to months/years. (Component 1 and 4) They will research various facts about our planet, including the heights of various natural objects such as mountains and lengths/ depths of lakes. (Component 6)	Students will also consider large numbers when looking at populations of various countries and learn how to write these in words. (Component 1) Statistical information can be collated in surveys and students will learn how to present this data in a variety of formats, including: bar charts, tally charts, pictograms and pie charts. (Component 8)
Assessment	Baseline assessments paper 1 to paper 4	Internal assessments paper 1 and paper 2 only POS SIMS	Ongoing teacher lesson assessments SIMS P/G/S/B	Internal assessments paper 3 and paper 4 only	EOY data internal assessments Papers 1 to 4	

Maths M Term Plans
Year 8

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Shopping and money	Planning a party	Design a bedroom	Gardening	Sports and hobbies	Sports and hobbies
Topic Overview	Students will study units containing objectives which encourage them to develop their number and operation skills, in a real life context of shopping. (See POS components 1 and 2.) They will learn about the variety of coins used in the UK and other countries and begin to understand the purchasing power of money. Focus will be on equivalence of monetary values, calculating change and also converting from pounds to pence and vice versa.(Component 4)	Students will look at budgets and planning resources to create a party. They will look at costings and also decision making based on monetary calculations. They will also need to consider multiples and factors when purchasing items. (Components 1, 2 and 4). Tasks will be incorporated that look at basic fractions and ratios when sharing items such as pizzas. (Component 3). Students will also need to consider timings and also learn how to tell the time within this module. (Component 5) Students will look at various shapes used in packaging and decorations. (Component 7)	Students will study units of work that look at measuring and using a variety of units of length and area. They will use numerical skills and operations to add up the amount of materials needed such as wallpaper and paint. (Component 6, 1 and 2) Calculations can be made to work out the cost of decorating the room. (Component 4) Students will make decisions regarding shapes and sizes of objects . (Component 7)	Students will consider a variety of shapes and focus on the Geometry involved in Garden designs, containers and various plants and tress (including symmetry). (Component 7.) They will study various ways of measuring plants and tress, comparing units and also converting between units . Temperatures can also be studied when looking at optimal growing environments. (Component 2 and 5) Student can look at seasons and times of the year and focus on how many days/ weeks/ months particular plants need to grow. (Component 5 and 6) Costing of buying plants, extending to percentage increase and decrease. (Component 4).	Students will mainly focus on time and measurement components and how this is used particularly in Sports . Real life examples in sporting events of how measurement is used.(Components 5 and 6) Numbers and operation skills can be developed by using addition methods in games such as darts. Times , heights and lengths can be ordered and compared for various athletes. (Component 1, 3) Students will participate in timed activities and number competitions.	Statistical data can be collected around the school in surveys and presented in a variety of methods, including tally charts, bar charts, pie charts. (Component 8) Flag from various countries in sporting events can be studied and look at symmetry. (component 7) Statisticall data from various sporting events such as the Olympics and football tournaments can be collated.
Assessment	Baseline assessments P1-P4	Internal assessments paper 1 and	Ongoing teacher lesson assessments	•Internal assessments paper 3 and paper 4 only	EOY data internal assessments	

Maths M Term Plans
Year 9

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Shopping and money	Planning a party	Food and catering	Holidays and travel	Animals and Nature	Animals and Nature
Topic Overview	Students will study units containing objectives which encourage them to develop their number and operation skills, in a real life context of shopping. (See POS components 1 and 2.) They will learn about the variety of coins used in the UK and other countries and begin to understand the purchasing power of money. Focus will be on equivalence of monetary values, calculating change and also converting from pounds to pence and vice versa.(Component 4)	Students will look at budgets and planning resources to create a party. They will look at costings and also decision making based on monetary calculations. They will also need to consider multiples and factors when purchasing items. (Components 1, 2 and 4). Tasks will be incorporated that look at basic fractions and ratios when sharing items such as pizzas. (Component 3). Students will also need to consider timings and also learn how to tell the time within this module. (Component 5) Students will look at various shapes used in packaging and decorations. (Component 7)	Students will study objectives which focus on measuring and comparing: weights, lengths and volumes. They will consider units of measurements for various items and choose the most appropriate ones. They will study recipes and how to apply ratio skills to calculate the amount of ingredients needed. (Component 6 and 2) They will also focus on “Time” and durations needed for cooking various dishes. Statistics (Component 8) can be applied to this unit by use of favourite foods. Carrot Club activities from Year 7 can be completed this year and in 2019/2020.	Students will look at various countries they may wish to visit and compare sizes and the distances from the UK. (Component 6) Temperatures and weather information can be ordered . Costings for a holiday can be made using internet or travel agent resources. (Component 6 and 4) Students will study various calendars and timetables to develop their time component knowledge. (Component 5)	Students will look at various aspects of the Animal Kingdom and our planet to link skills in Science, Geography and Maths. They will study the weights and heights of various creatures. (Component 6) They will consider lifespans and gestation periods, converting between various timescales e.g. weeks to months/years. (Component 1 and 4) They will research various facts about our planet, including the heights of various natural objects such as mountains and lengths/ depths of lakes. (Component 6)	Students will also consider large numbers when looking at populations of various countries and learn how to write these in words. (Component 1) Statistical information can be collated in surveys and students will learn how to present this data in a variety of formats, including: bar charts, tally charts, pictograms and pie charts. (Component 8)
Assessment	Baseline assessments P1-P4	Internal assessments paper 1 and paper 2 only	Ongoing teacher lesson assessments SIMS R/G/S/B	Internal assessments paper 3 and paper 4 only	EOY data internal assessments Papers 1 to 4	

Maths Long Term Plans
Year 10

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Shopping and money	Food, catering and planning a party	Accreditations Number/ Operations	Accreditations Money/Time	Sports and Hobbies	Sports and Hobbies
Topic Overview	Students will study units containing objectives which encourage them to develop their number and operation skills, in a real life context of shopping. (See POS components 1 and 2.) They will learn about the variety of coins used in the UK and other countries and begin to understand the purchasing power of money. Focus will be on equivalence of monetary values, calculating change and also converting from pounds to pence and vice versa.(Component 4)	Students will look at budgets and planning resources to create a party. They will look at costings and also decision making based on monetary calculations. They will also need to consider multiples and factors when purchasing items. (Components 1, 2 and 4). Tasks will be incorporated that look at basic fractions and ratios when sharing items such as pizzas. Proportion when preparing recipes .and measurements. (Component 3). Students will also need to consider timings and also learn how to tell the time within this module. (Component 5) Students will look at various shapes used in packaging and decorations. (Component 7)	Referring to previous topics from Term 1 and KS3, Year 10 will begin attempting the AQA specimen materials with a view to completing their first attempt at Component 1 and 2 before Easter break.	Referring to previous topics from Term 1 and KS3, Year 10 will begin attempting the AQA specimen materials with a view to completing their first attempt at Component 3, 4 and 5 before Easter break.	Students will mainly focus on time and measurement components and how this is used particularly in Sports . Real life examples in sporting events of how measurement is used.(Components 5 and 6) Numbers and operation skills can be developed by using addition methods in games such as darts. Times , heights and lengths can be ordered and compared for various athletes. (Component 1, 3) Students will participate in timed activities and number competitions.	Statistical data can be collected around the school in surveys and presented in a variety of methods, including tally charts, bar charts, pie charts. (Component 8) Flag from various countries in sporting events can be studied and look at symmetry. (component 7) Statistical data from various sporting events such as the Olympics and football tournaments can be collated. This can then be presented in various formats.
Assessment	Baseline assessments	Internal assessments paper	Ongoing teacher lesson	Internal assessments	EOY data internal	

Maths Long Term Plans
Year 11

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Shopping and money	Planning a party	Accreditations		Animals and Nature	Animals and Nature
Topic Overview	Students will study units containing objectives which encourage them to develop their number and operation skills, in a real life context of shopping. (See POS components 1 and 2.) They will learn about the variety of coins used in the UK and other countries and begin to understand the purchasing power of money. Focus will be on equivalence of monetary values, calculating change and also converting from pounds to pence and vice versa.(Component 4)	Students will look at budgets and planning resources to create a party. They will look at costings and also decision making based on monetary calculations. They will also need to consider multiples and factors when purchasing items. (Components 1, 2 and 4). Tasks will be incorporated that look at basic fractions and ratios when sharing items such as pizzas. (Component 3). Students will also need to consider timings and also learn how to tell the time within this module. (Component 5) Students will look at various shapes used in packaging and decorations. (Component 7)	Components will be revisted and revised from year 7-10 and formal assessments finalised in: 1) Number 2) Operations 3) Ratio 4) Money 5) Time 6) Measures 7) Geometry 8) Statistics		Students will look at various aspects of the Animal Kingdom and our planet to link skills in Science, Geography and Maths. They will study the weights and heights of various creatures. (Component 6) They will consider lifespans and gestation periods, converting between various timescales e.g. weeks to months/years. (Component 1 and 4) They will research various facts about our planet, including the heights of various natural objects such as mountains and lengths/ depths of lakes. (Component 6)	Students will also consider large numbers when looking at populations of various countries and learn how to write these in words. (Component 1) Statistical information can be collated in surveys and students will learn how to present this data in a variety of formats, including: bar charts, tally charts, pictograms and pie charts. (Component 8)
Assessment	Baseline assessments P1-P4	Internal assessments paper 1 and paper 2 only	Ongoing teacher lesson assessments SIMS P/G/S/B	Internal assessments paper 3 and paper 4 only		