Long Term Curriculum Overview   **TUTOR GROUP:** CI

	Autumn Term 1	Autumn Term 2	Spring 1 Term	Spring 2 Term	Summer Term 1	Summer Term 2
Science	**Forces** Representing forces; Unbalance forces; Speed Motion graphs; Hooke's law Moments and turning effect; Pressure	**Organ Systems** Cells, tissues and organs; Skeleton; Nutrition; Digestive system; Gas exchange system Reproductive system; Pregnancy and birth	**Chemical Reactions** Review of yr7; Chemical reactions; Acids and alkalis Acid reactions; Endo and exothermic; Rates of reactions	**Earth cycles and space** The Carbon cycle; The atmosphere; Changing Environment; Gravity Space	**Light and Sound** Waves; Sound; Light; colours and cameras	**Inheritance and survival** DNA; Inheritance; Variation Natural selection; Evolution
Maths	**The number system:** Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. **Counting:** Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit **Calculating – Add and Subtract:** Add and subtract numbers mentally with increasingly large numbers.	**Calculating- multiply and divide:** Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 **Shapes:** Use the properties of rectangles to deduce related facts and find missing lengths and angles	**Constructing:** Identify 3-D shapes, including cubes and other cuboids, from 2-D representations **Time:** Solve problems involving converting between units of time **Fractions and decimals:** Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	**Percentages:** Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages **Patterns:** count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 **Measuring space:** convert between different units of metric measure (e.g. kilometre and metre)	**Investigating angles:** know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles **Calculating space:** Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	**Approximating and estimating:** Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 **Presenting data:** Solve comparison, sum and difference problems using information presented in a line graph
ICT	**Introduction to IT** Baseline groundings Learn the basics of it from software skills to networking to what a bit and byte is and does	**Crash Course Computer Science:** Pupils learn the basics of computer science, with a focus on its history through to the latest innovations in AI	**3D Printing Introduction** Students will learn to design and 3d print.	**Python Magic** This scheme of work will give learners a basic understanding of the Python programming language; **Introduction to Office:** Students will learn the basics of the Office 365 software	**Welcome to 3D and games** Students get there first look at VR and the possibilities of developing moving 3d environments, objects and characters.	**Class VR Project** Whole class Game development using VR technology and unreal engine
Humanities	**HISTORY** - Introduction to Henry VIII and his wives; looking at life in Tudor England. Pupils will analyse Henry VIII's early years as King, including his expensive wars in France, his growing desire for a divorce from Catherine of Aragon, and the rise and fall of Anne Boleyn.	**HISTORY** - The reformation and the establishment of the Church of England. Pupils will learn how and why Henry VIII separated England from the Catholic Church. They will also analyse the dissolution of the monasteries, and the consequences of the Reformation.	**GEOGRAPHY** - Major geographical features of the world, Europe, and the UK; population density and urbanisation. Pupils will focus on: cliff erosion at Durdle Door in Dorset, Oxbow lake formation at Cuckmere Haven in Sussex, and volcano activity at Mauna Loa in Hawaii	**GEOGRAPHY** -Pupils carry out an extended project (a geographical case study into Japan). Pupils will look at how Japanese cities have progressed from small rural settlements to bustling metropolises; they will analyse the architecture, culture, and customs of the city of Tokyo	**R.E.** - Comparing and contrasting the places of worship for the four major world religions, Pupils will analyse the architecture and customs of synagogues, churches, mosques, and Hindu temples. They will also compare the different uses of these buildings and explore some famous examples in VR.	**R.E.** – "Looking for God": pupils analyse the reasons why people believe in God (e.g. miracles, revelation), and some of the reasons why people are believing in God less in the modern era. Pupils will weigh up the evidence in favour and against the existence of God.

English	**The Gothic** Identifying and using gothic literary conventions in creative writing; identifying Pathetic Fallacy in writing; traditional gothic villains: Frankenstein's monster; create and introduce a character in the style of the gothic; improving spellings and range of vocabulary; looking at characterisation in *The Landlady* by Roald Dahl.	**The Gothic** cont. Analysing the concept of good vs. evil; literary tension; story mountain; looking at how Roald Dahl's use of language in *Lamb to the Slaughter*; Recounting and comparing past tales; looking at *The Raven*; looking at atmosphere in *The Red Room*; reading comprehension – *Journey to Castle Dracula*.	**A Midsummer Night's Dream** Shakespeare introduction; understanding literary comedy; character portraits; plot sequencing and storyboards; understanding Shakespeare's audience; translating Shakespeare into modern English; analysis of figurative language; deconstructing language to trace character development	**A Midsummer Night's Dream** Learning about characterisation and empathy with a "Thinking Hard" task; looking at Shakespeare's literary techniques to convey emotions; Shakespearian insults; punctuation practise; thesaurus challenges; analysing symbolism; analysing animated tales; character building techniques; AMSND Book report.	**Creative Writing** Using language for effect; analysing literary mood; planning a plot; analysing a range of descriptive techniques; understand how to incorporate descriptive writing techniques into a narrative; writing from prompts; analysing a written piece about climate change; narrative vs descriptive literary techniques.	**Text: Sky Hawk** Explain how the writer creates an air of mystery; finding relevant quotes from text; looking at how writers convey suspense; internal monologues; the language of persuasion; understanding implicit language; writing formal letters; interpreting information from a text; structuring paragraphs; key text – *Sky Hawk*.
PSHE	Transition to secondary school and personal safety in and outside school, including first aid; exploring personal strengths and weaknesses; improving resilience in the face of change	Careers, teamwork, and enterprise skills, and raising aspirations; equality of opportunity; challenging stereotypes; the link between values and career choices	Diversity, prejudice, and bullying; living in a diverse society; the effects of in-person and online bullying; how to support others.	Healthy routines, influences on health, puberty, unwanted contact, and FGM; making healthy lifestyle choices; managing influences of caffeine, smoking and alcohol.	Self-worth, romance, and friendships (including online) and relationship boundaries; evaluating expectations for romantic relationships; consent – seeking and assertively communicating it	Saving, borrowing, budgeting, and making financial choices; managing risky financial behaviour/
RSHE	Understanding how to manage influences on my relationships	Learning how respect impacts on relationships; exploring the concept of mutual respect	Learning how certain choices can have negative and/or positive consequences on my relationships	Learning the difference between positive and negative health choices (diet, exercise, sleep etc.)	Learning the difference between a healthy and toxic relationship	Understand the range of physiological and psychological changes which prepare us for adulthood
PE	**Fitness:** Introduction pupils will learn and accurately replicate specific techniques for a variety of fitness-based activities. **Table tennis:** Pupils will develop the ability to land the ball in a target area and refining game strategies with the intention of outwitting an opponent.	**Badminton:** Pupils will focus on replicating and developing techniques as well as implementing and refining strategic play to defend and attack opponents. **Basketball:** Pupils focus on how to use basic principles of attack and defence to plan strategy and tactics for basketball.	**Hockey:** Pupils focus on how to use basic principles of attack and defence to plan strategies and tactics for hockey. **Handball:** Pupils will focus on how to use basic principles of attack and defence and to plan effective strategies. They will work on improving core techniques to outwit opponents	**Swimming - Front Crawl:** Pupils will be able to demonstrate some understanding of front crawl leg kick and arm action. **Back Crawl:** Pupils will be able to demonstrate some understanding of back crawl arm action and leg kick. Students will also be able to demonstrate a push and glide on back	**Football:** Pupils focus on how to use basic principles of attack and defence to plan strategy and tactics for football. They work on improving the quality of their skills **Tennis:** Pupils will aim to improve their individual technique. Pupils will learn to play shots within a rally more effectively and consistently	**Rounders:** Pupils will replicate and improve individual technique in batting, bowling, and fielding. Pupils should begin to accurately score games. **Athletics:** Pupils will accurately replicate running, jumping, and throwing skills and learn specific techniques for events in order to improve performances.
Technology	Programming in Scratch working animation and system control	Hour of Code BBC Micro bits	3D printing Plan then Build	Robotics	Lego; Programming through technics	3D printing The chocolate companies
Art	**2-week jellyfish project** The formal Elements – an introduction to the basics in art.	**Natural forms** Study of natural forms. Shells, flowers, trees and seeds, feathers etc. Artist research – study of Vincent Van Gogh	**Aboriginal Art** Study into the native Australians; dot work; art history; hot and cold colours; animal studies	**Aboriginal Art** Continuation of project; artist research – primitive and naïve art; large paintings printmaking	**Landscapes** Study of different types of landscape; urban, rural, seascape; perspective; mixed media and printmaking	**Landscapes** Continuation of project; David Hockney critical studies; relief work with cardboard; experimentation and final piece; 3D relief tile