






SMCS SUPER-CURRICULUM

Maths

		READ on TEAMS 	WATCH / LISTEN 	DO / VISIT 
Year 7	Autumn 1	Fibonacci task	Fibonacci sequence You Tube	Maths Bake off, Research Happy Numbers and Perfect Numbers, Diagnostic test on SumDog, Times table competition, Sumdog South East England Competition
	Autumn 2	Maths snowboarding task	12 days of Christmas maths You Tube, watch RI Xmas lectures	Design a Christmas Dec, Sumdog Winter Wonderland
	Spring 1	Footballs and Buckyballs p60-61	Pascal's Triangle (you tube)	Sumdog SE Eng Contest

	Spring 2	Maths in Pancake recipes, Flatland (the book)	Short film: Eustace solves a problem	IH Times tables, Heats Team Maths Challenge, Sumdog Competition
	Summer 1	Rollercoasters maths reading task	Flatland film	Junior Maths Challenge, Sumdog Competition
	Summer 2	Take a Chance task	Short Disney film on Youtube: Donald In Mathmagic Land	British Museum maths trip, Sumdog Competition
Year 8	Autumn 1	Research: Who invented Zero?	Humorous documentary: The Story of 1	Maths Bake Off, Diagnostic test on SumDog, Sumdog South East England Competition
	Autumn 2	Wang Zhengi task	Youtube: maths of Christmas Wrapping	Design a Christmas Dec, Sumdog WinterWonderland
	Spring 1	Weighing Up p42-43	Youtube: Circle Challenge: Mystic Rose	Sumdog SE Eng Contest, National Pi Day Challenge
	Spring 2	Research Ciphers and Codes	The Imitation game	Bletchley park Visit, Sumdog Competition
	Summer 1	Amazing Mazes	Film: 21	Junior Maths Challenge, Heats Team Maths Challenge, Sumdog Competition

	Summer 2	Mathmagical Tricks p48-49	Queen Of Katwe (PG film)	Sumdog Summer Challenge, Junior Kangaroo & Olympiad
Year 9	Autumn 1	Alan Turing Task	You Tube: Drawings of Esher	Problem Solving Workshop
	Autumn 2	Extreme Sports Challenge	Film: October Sky	National Cipher Challenge
	Spring 1	What is Phi? P34-35	Film: The Theory of Everything	Research Lives of mathematicians, Intermediate maths Challenge
	Spring 2	It's all Greek p22-25	Youtube Real Life uses of Trigonometry	Royal Institution Maths Festival, AMSP Problem solving enrichment event, Grey Kangaroo, Cayley Hamilton and Maclaurin Olympiads
	Summer 1	Topology P66-67	Film : A Brilliant Young Mind	New York Maths Trip
	Summer 2	Logic P83-84	MoneyBall Film	Research careers in maths www.mathscareers.org

Year 10	Autumn 1	Katherine Johnson Task	BBC Sounds More or Less	Research careers in maths (www.mathscareers.org)
	Autumn 2	Freaky Fractals p80-81	Watch Hidden Figures	National Cipher Challenge, Alan Turing Comp
	Spring 1	Develop ability to interpret wordy exam questions with focus on instruction words such as 'factorise'	YouTube : Maths and the Simpsons	Intermediate Maths Challenge, Alan Turing Cryptography Competition
	Spring 2	Vectors task	HFL Online revision webinars	RI Maths Fest, AMSP Problem solving enrichment event, Grey Kangaroo
	Summer 1	The Art of Maths p84-85	The Martian film	Maths at University (UEA visit)
	Summer 2	Who's Who p88-91	BBC Sounds A brief History of Mathematics	BSET Maths Challenge

Year 11	Autumn 1	Read an article on mathscareers.org	Numberphile (youtube)	Senior Maths Challenge,
	Autumn 2	What Goes Around p46-51	Podcast-BBCSounds: More or less	Maths Inspiration Talk, national Cipher challenge, Andrew Jobbings Senior Kangaroo
	Spring 1	Read an article on Plusmaths.org	Film:The man who knew infinity	Girls Cambridge Maths event, Alan Turing Cryptography Competition
	Spring 2	Refine skills of reading wordy exam questions and being able to extract the meaning	HFL Online Maths revision webinars	HFL online Maths revision webinars, Maths at University (UEA)
	Summer 1		Numberphile (youtube) BBCSounds: More or less	Research careers in maths (www.mathscareers.org)
	Summer 2			
Year 12	Autumn 1 2	Plusmaths.org articles	Numberphile (youtube), BBCSounds podcast: More or less	Senior Maths Challenge, Girls' maths Olympiad

	Autumn 2	Rob Eastaway Book: Why Do Buses Come in Threes	Film: Hidden Figures/Proof/Good Will Hunting Film	Maths Inspiration Talk
	Spring 1	Book by Simon Singh: Maths and the Simpsons	Numberphile (youtube), BBCSounds podcast: More or less	Maths Bombe Contest, Support y10 problem solving event, Girls' trip to Cambridge Uni
	Spring 2	Professor Stewart Books	Film: The man Who Knew infinity	Oxford maths club, problem solving online events, RI Maths Fest
	Summer 1	Mathscareers.org articles and Oxford textbook Beyond the Curriculum pages on Fermat	Numberphile videos on partitioning and Ramanudan	Maths at University (UEA)
	Summer 2	Mathscareers.org articles and Oxford Beyond the Curriculum pages on Logarithms	The travelling salesman (plusmaths.org)	Visit Maths floor 6 at Science Museum
Year 13	Autumn 1	How many socks make a pair or other R Eastaway books	Numberphile (youtube) BBCSounds podcast: More or less	Senior Maths Challenge, Girls' maths Olympiad

	Autumn 2	How many socks make a pair or other R Eastaway books	Numberphile (youtube) BBCSounds podcast: More or less	Maths Inspiration Talk, Support Y10 problem solving event
	Spring 1	Lies, Damn Lies and Statistics	You Tube: Understanding the Normal Dist	Maths Bombe Contest
	Spring 2	Article on uses of Binomial Distribution	HFL online Maths revision webinars	Research careers in maths www.mathscareers.org
	Summer 1			
	Summer 2			