Perran-ar-Worthal Knowledge Organiser

Year 5 - Kingfishers Autumn Term 2

Morning Lessons

English

Genre	Detective and Mystery
Reading Texts	The Secret of the Night Train
	Great Britain's Railway Network
	'From a Railway Carriage' by Robert Louis Stevenson
Discrete G&P	Co-ordinating conjunctions
	Subordinating conjunctions
	Relative clause
	Passive Voice
	Semi-colons
Spelling	'silent' letters
	words ending in 'ment'
	adverbs of possibility and frequency
	challenge words (e.g. bruise)
	challenge words (e.g. privilege)

Maths

Unit	Language	Links
Statistics	comparison, sum, difference, interpret, graph	train timetables plot growth of railways
Number: Multiplication and division	multiples , factors , common factors , prime and composite , square number cube number , multiply , divide , factor pairs , systematic , Venn diagrams , array , predict	Venn diagram of materials arrays of train carriages
Measurement: Perimeter and area	measure , calculate , perimeter , area , rectangles , compound shapes, irregular , shapes , rectilinear shapes , units of measure	measurements of trains area/perimeter of different materials

Composite: The Mystery of...

Component 1	Component 2	Component 3
Structural features: Describe setting Clues for the reader Short, shocking sentences Relative clauses Use adverbials to link across paragraphs	Language features: Synonyms Similes Metaphors Onomatopoeia	G & P: Powerful punctuation Ellipsis Simple, compound and complex sentences

Afternoon Lessons

Computing

Artists	e-safety
	Bridget Riley & Inkscape
	Coding—logo
	Coding—scratch
	Shodor tessellation
	Final piece using selected software

History

Railways	Early locomotives
	Steam locomotives
	Growth of the railways
	Railways art
	Impact of the railways
	Development of technology

Science

Material World	Why materials matter
	Comparison of materials
	Materials that will dissolve
	Liquids, gases and solids
	Making changes and

Fab Friday

French	Where you live.
P.E.	Dance
Drama	Shakespeare

Vocabulary Pyramids

Tier 3	input, output, block, sequence, debug, FD, PD, REPEAT, command
Tier 2	repeat, tessellate, digital art, variation, procedure
Tier 1	laptop, program, open, save, edit, log-on,

Tier 3	locomotive , Rocket , Rainhill Trials , Puffing Billy , Richard Trevithick , National Railway Museum , carriage , wagon
Tier 2	chronological , establish , similarities , construct , past and present , respond , industries , technology , society , connections ,
Tier 1	train , steam , travel , coal , reliable , passenger , environment , routes

Tier 3	Insoluble, soluble, permeable, resistance,
Tier 2	chemical physical, reversible, irreversible, solution, separate, flexible, magnetic, filter, sieve
Tier 1	material, dissolve, solid, liquid, gas, hard, soft, conductor, melt, heat, cold