Year 8 Half Term 4 Curriculum

Subject	Half Term 4 – Topic/Summary of Powerful Knowledge
English	Terror and Horror (Gothic Fiction):
	 Science vs Nature – develop understanding of social anxiety portrayed in
	Gothic Literature
	Analysis of conceptual metaphor
	The outsider archetype
	The theme of isolation
	Representation of women as absent, seductress or victim
	Main text: Frankenstein (Shelley)
Maths	Fractions & percentages
	Convert fluently between key fractions decimals and percentages
	Calculate key fractions, decimals and percentages of an amount without a
	calculator
	Calculate fractions, decimals and percentages of an amount using calculator
	methods
	 Convert between decimals and percentages greater than 100%
	Percentage decrease with a multiplier
	 Calculate percentage increase and decrease using a multiplier
	 Express one number as a fraction or a percentage of another without a
	calculator
	 Express one number as a fraction or a percentage of another using
	calculator methods
	Work with percentage change
	 Choose appropriate methods to solve percentage problems
	 Find the original amount given the percentage less than 100%
	 Find the original amount given the percentage greater than 100%
	 Choose appropriate methods to solve complex percentage problems
	Standard index form
	 Investigate positive powers of 10
	 Work with numbers greater than 1 in standard form
	 Investigate negative powers of 10
	 Work with numbers between 0 and 1 in standard form
	 Compare and order numbers in standard form
	 Mentally calculate with numbers in standard form
	 Add and subtract numbers in standard form
	 Multiply and divide numbers in standard form
	 Use a calculator to work with numbers in standard form
	 Understand and use negative indices
	 Understand and use fractional indices
	<u>Number sense</u>
	 Round numbers to powers of 10 and 1 significant figure
	 Round numbers to a given number of decimal places
	Estimate the answer to a calculation
	 Understand and use error interval notation
	Calculate using the order of operations
	Calculate with money
	 Convert metric measures of lengths

	Convert module units of weight and consists.
	Convert metric units of weight and capacity
	Convert metric units of area
	Convert metric units of volume
	Solve problems involving time and the calendar
Science	Energy 2 reactions 2
	Work energy and machines
	Energy and temperature
	Energy transfer
	Radiation and insulation
	Reactions 2
	Atoms in chemical reactions
	Combustion
	Thermal decomposition
	Conservation of mass
	Exothermic and endo thermic
	Energy level diagrams
	Bond energies
History	<u>Democracy in Britain</u> ,
	Magana carta
	Peasants Revolt
	Civil War,
	Peterloo Massacre
	Chartists
Geography	Population:
	Causes of migration
	Effects of migration
	The American Dream
	Migration and the UK
<u>Spanish</u>	Las Vacaciones:
	Talking about a past holiday.
	The Preterite tense
	Opinions in the past
Art	<u>Urban Surroundings - Colour and Painting;</u>
	Developing a composition
	Complete a watercolour painting. Improve skills in record tone, texture and
	form. Include references to complementary / harmonious colours.
	Develop skills in press print
Computing	Animation
, 0	Learn to use animation software
	Basic graphic drawing for animation
	Animation techniques
	 Undertake an animation project
DT	Key Rings
	 Understand the differences of thermosetting and thermoforming polymers
	and the environmental impact
	Design and manufacturing through computer aided design and computer
	aided manufacture
	 Using tools and equipment safely in the workshop environment
	The state of the s

	Understanding working properties of timber and the different joining
Food	techniques
	Applying different drawing techniques (freehand)
	sketching/perspective/rendering/shading)
	Factors that affect food choices
Preparation	
& Nutrition	Hydration Allergans
	Allergens
	Bacteria source and symptoms of E-coli and salmonella, staphylococcus
	aureus, campylobacter, bacillus, preventing cross contamination/cause of
	food poisoning
	• Smoothies
	Sesame noodles
	Salt and pepper chicken
Drama	<u>Devising – Explorative Strategies</u>
	 Recognition and conventions of dramatic genres
	Development of the techniques
	Use and role of narrator
	Still Image as a narrative technique and to refine the physicality of a
	character
	Responding to a stimulus
Music	Composing Using Loops
	The purpose of a loop.
	 How a piece of music is constructed using loops.
	Creating their own loop patterns.
	 Using music software to edit, improve and enhance their own music.
	Creating music within a given structure.
	 Adding additional sections to a piece of music to extend and develop their
	musical ideas.
	Critically comment on a composition.
	Applying dynamics and tempo to a composition.
PE	Development of skills and tactics in one of the following sports swimming,
	gymnastics, softball athletics and badminton.
	 Focus on muscles and muscles movements related to sporting actions.
	Participation in an interform competition.
	Continual development of fitness levels and knowledge of fartlek training.
RE/PSHE	Respecting Others:
112,1 3112	Where do we see faith-based conflict in the world?
	Extremism
	Racism and faith-based prejudice
	How does religion work for peace in our society?
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