Key Stage Year Group		Subject	Teacher	Programme of Study			
2	5 & 6	Design Technology	Miss M Baguley	National Curriculum	DT		
Autumn a		Autumn b	Spring a	Spring b	Summer a	Summer b	
Topic	c(s)	Topic(s)	Topic(s)	Topic(s)	Topic(s)	Topic(s)	
Health & Safety Materials		CAM toy	Blok bots	Blok bots	Blok bots	Techcard	
		Assessment Tasks	Assessment Tasks	Assessment Tasks	Assessment Task	Assessment Tasks	
Health & Safety Awareness		Use of manufacturing tools and Techniques	Manufacturing plans	Finishing techniques	Evaluation	Gears, Cams and levers	
Key Skills		Key Skills	Key Skills	Key Skills	Key Skills	Key Skills	
Pupils will learn h		Pupils will learn how to: -	Pupils will learn how to: -	Pupils will learn how to :-	Pupils will learn how to :-	Pupils will understand that:-	
accurately measure, mark out, cut and shape materials and components model their ideas using prototypes and pattern pieces		talk about their design ideas and what they are making produce appropriate lists of tools, equipment and materials that they need	accurately assemble, join and combine materials and components identify the strengths and areas for development in their ideas and products	use computer-aided design to develop and communicate their ideas make design decisions, taking account constraints such as time, resources and cost	how well products have been made demonstrate resourcefulness when tackling practical problems	use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components how to use learning from mathematics to hep deign and make products that work	
Personal Development/Careers		Personal Development/Careers	Personal Development/Careers	Personal Development/Careers	Personal Development/Careers	Personal Development/Careers	
Pupils will be introduced to Design Technology (Black history month link)		Pupils will have a discussion around how to be more environmentally friendly products	Focus on why DT is important in life	Discussion on a range of designers, engineers, technologists and manufacturers	Life Cycle of products – concept of 'cradle to grave'	How maths can relate to real world applications	
Reading & Writing		Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing	
Pupils will use the literacy mats to support their learning		Pupils will use the literacy mats to support their learning Use of practical log to record progress and Verbal Feedback	Pupils will use the literacy mats to support their learning Use of practical log to record progress and Verbal Feedback	Pupils will use the literacy mats to support their learning Use of practical log to record progress and Verbal Feedback	Pupils will use the literacy mats to support their learning Use of practical log to record progress and Verbal	Pupils will use the literacy mats to support their learning Use of practical log to record progress and Verbal	
Speaking & Listening		Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	

Pupils will compare and discuss H&S images	Use of group work to analyse trains	Pupils will discuss a variety STEM careers	Use of peers to discuss practical progress on trains and set new targets	Small group work to evaluate their trains	Pupils will be able to discuss in groups how movement and motion can be altered
Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning
Pupils will use the numeracy mats to support their learning	Pupils will use the numeracy mats to support their learning Accuracy , rounding &	Pupils will use the numeracy mats to support their learning	Pupils will use the numeracy mats to support their learning	Pupils will use the numeracy mats to support their learning	Pupils will use the numeracy mats to support their learning
Use of Isometric drawing Learners will be measuring and	estimation Use of templates to support	Use of Time scales Costings	Percentages and ratio	Interpreting and	Use of Gear trains Ratio
Creative Media	Creative Media	Creative Media	Creative Media	Creative Media	Creative Media
Learners will be able to use iPad to photo work and add to portfolio work	Learners will be able to use iPad to photo work and add to portfolio work	Learners will be able to use iPad to photo work and add to portfolio work	Learners will be able to use iPad to photo work and add to portfolio work	Learners will be able to use iPad to photo work and add to portfolio work	Learners will be able to use iPad to photo work and add to portfolio work