

Our Design Technology Curriculum – including STEM

INTENT	At BMPS...	We guide our learners to understand the value of DT in society and as a broad range of skills that have been used and developed to face both the physical, logistical and cognitive challenges in human history. We strive to use DT and STEM to help cement, deepen and broaden learning across the curriculum.
	In DT AND STEM.	We aim to do this through the development of creative, technical and practical skills for everyday life, build up knowledge and understanding of design concepts and products, evaluation of their own and worldwide products and ideas and understanding and application of principles of nutrition and self-care, including cookery and practical physical and mental well-being.

IMPLEMENTATION	Classroom	Observe and explore	Design	Create/make	Self Evaluate and test	Technical knowledge	Cooking and nutrition	G&T	
	Events	STEM day/week challenges		Designer Visits	Gallery and exhibit visits	Competitions	Workshops and clubs		
	Parental engagement	Curiosity Cafes		Class Dojo	Information Events	Communication	Design/STEM exhibits		
	Community	Local Designers to visit			DT /Lego/design club		Festival participation/competition		
	Training	CPD for co-ordinator etc		Staff meetings training by lead. Lead to help staff with skills and ideas		Whole school STEM events to build skills and experience		Lead to help teachers include art across the curriculum	

IMPACT	Great outcomes	Children will show research and development of design of products to purposefully meet challenges. They will show this by drawing, templates, mock-ups and more technical and accurate diagrams. They will begin to use ICT to develop this.			Children will use a variety of materials and tools to create and construct and develop products, including meals with ingredients. They will be able to follow instructions and order their processes.			They will develop their understanding of technical mechanisms and aspects, such as levers, wheels, cams, switches and other components and use appropriate vocabulary. They will use ICT to develop this	
	Evaluation	Regular obs of sketchbooks	Evidence through displays	Evidence of DT and STEM being used in children's books to enhance learning	Discussions with staff	Lesson observations	Discussions with children	Technical gaps/coverage analysis and support	Termly evaluation.