

Programmes of study and Early learning goals

Beenham Primary School Curriculum 22 (187 projects, 4798 lessons) live

Big idea	Aspect	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Humankind	Everyday products	AOL: Exp A&D Use everyday products, stories, pictures, interests and experiences to inspire their creations. covered optional x 2 breadth	AOL: Exp A&D Use everyday products, stories, pictures, interests and experiences to inspire their creations. covered x 3 optional x 4 breadth	Explore and evaluate a range of existing products. covered x 2	Explore and evaluate a range of existing products. covered x 2	Investigate and analyse a range of existing products. covered x 2	Investigate and analyse a range of existing products. covered x 6 optional x 2	Investigate and analyse a range of existing products. covered x 3	Investigate and analyse a range of existing products. covered x 3 optional
	Staying safe	AOL: PSED Explain the reasons for rules, know right from wrong and try to behave accordingly. AOL: PD Explore a range of tools and equipment to perform practical tasks safely, for example, cutting and joining. optional x 2 breadth	AOL: PSED Explain the reasons for rules, know right from wrong and try to behave accordingly. AOL: PD Explore a range of tools and equipment to perform practical tasks safely, for example, cutting and joining. covered x 2 optional breadth	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. covered x 2 optional x 2 breadth	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. breadth Know about personal hygiene and germs including bacteria, viruses, how they are spread and treated, and the importance of handwashing. covered optional x 8	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. covered optional x 3 breadth	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. covered breadth	Critique, evaluate and test their ideas and products and the work of others. covered breadth	Critique, evaluate and test their ideas and products and the work of others. covered breadth
Processes	Mechanisms and movement	AOL: Exp A&D Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. covered x 2 breadth	AOL: Exp A&D Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. covered x 8 optional x 2 breadth	Explore and use mechanisms (for example, levers, sliders, wheels and axles), in their products. covered x 2	Explore and use mechanisms (for example, levers, sliders, wheels and axles), in their products. covered x 4	Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages). covered x 3 optional	Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages). covered x 3 optional	Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages). covered x 3 optional x 2	Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages). optional
	Electricity	AOL: Exp A&D Use pictures, interests and experiences to inspire their creations. optional breadth	AOL: Exp A&D Use pictures, interests and experiences to inspire their creations. covered optional breadth	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. breadth	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. breadth	Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors).	Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors). covered optional x 2	Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors).	Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors). Apply their understanding of computing to program, monitor and control their products. covered x 2 optional

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Creativity	Generation of ideas	AOL: Exp A&D Share their creations, explaining the process they have used. covered x 2optional x 6	AOL: Exp A&D Share their creations, explaining the process they have used. covered x 30optional x 15	Design purposeful, functional, appealing products for themselves and other users based on design criteria. covered x 4 Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. covered x 4	Design purposeful, functional, appealing products for themselves and other users based on design criteria. covered x 4optional x 4 Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. covered x 4optional x 4	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. covered x 3 Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. covered x 3	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. covered x 4optional x 3 Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. covered x 4optional x 3	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. covered Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. covered	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. covered x 2 Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. covered x 2
		Structures	AOL: Exp A&D Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. covered x 2optional x 3breadth AOL: Exp A&D Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. covered x 28optional x 12breadth	Build structures, exploring how they can be made stronger, stiffer and more stable. covered x 7optional	Build structures, exploring how they can be made stronger, stiffer and more stable. covered x 3optional x 4	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures. covered	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures. covered	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures. covered x 3	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures. covered x 2
		Use of ICT	AOL: Exp A&D Share their creations, explaining the process they have used. covered	AOL: Exp A&D Share their creations, explaining the process they have used. coveredoptional x 2	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. breadth	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. breadth	Apply their understanding of computing to program, monitor and control their products. optional	Apply their understanding of computing to program, monitor and control their products. covered x 2optional	Apply their understanding of computing to program, monitor and control their products. covered x 2
Investigation	Investigation	AOL: PD Use a range of small tools, including scissors, paint brushes and cutlery. optional x 3breadth AOL: PD Explore a range of tools and equipment to perform practical tasks safely, for example, cutting and joining. optional x 3breadth	AOL: PD Use a range of small tools, including scissors, paint brushes and cutlery. covered x 11optional x 7breadth AOL: PD Explore a range of tools and equipment to perform practical tasks safely, for example, cutting and joining. covered x 11optional x 7breadth	Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing). coveredoptional	Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing). covered x 4optional x 2	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered x 4optional	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered x 2optional x 2

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	Evaluation	AOL: Exp A&D Share their creations, explaining the process they have used. coveredoptional x 3	AOL: Exp A&D Share their creations, explaining the process they have used. covered x 6optional x 8	Evaluate their ideas and products against design criteria. covered x 3optional	Evaluate their ideas and products against design criteria. covered x 4	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. covered x 4optional	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. covered x 4	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. covered x 3optional x 2	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. covered x 3optional x 2
Materials	Cutting and joining textiles			Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing). covered	Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing). covered	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered x 2
	Materials for purpose	AOL: Exp A&D Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. optional x 3breadth	AOL: Exp A&D Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. covered x 6optional x 17breadth	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. covered x 2optional x 2	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. covered x 5optional	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered x 2optional	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered x 5optional x 4	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered x 2optional x 3	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered x 4optional x 3
	Decorating and embellishing textiles			Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. covered	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. covered	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately. covered	Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. covered
Nature	Food preparation and cooking		AOL: Maths Use everyday language to talk about length and height, weight and capacity. covered x 8optional	Use the basic principles of a healthy and varied diet to prepare dishes. coveredoptional	Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing). Use the basic principles of a healthy and varied diet to prepare dishes. covered	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. covered x 3	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. covered	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. covered x 2optional	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. covered x 3

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	Nutrition	AOL: PSED Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. covered	AOL: PSED Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. covered x 3 optional x 4	Use the basic principles of a healthy and varied diet to prepare dishes. Know what constitutes a healthy diet (including understanding calories and other nutritional content). Know the principles of planning and preparing a range of healthy meals. covered	Use the basic principles of a healthy and varied diet to prepare dishes. Know what constitutes a healthy diet (including understanding calories and other nutritional content). Know the principles of planning and preparing a range of healthy meals. covered	Understand and apply the principles of a healthy and varied diet. Know what constitutes a healthy diet (including understanding calories and other nutritional content). covered	Understand and apply the principles of a healthy and varied diet. Know what constitutes a healthy diet (including understanding calories and other nutritional content). Know the principles of planning and preparing a range of healthy meals. covered x 3	Understand and apply the principles of a healthy and varied diet. Know what constitutes a healthy diet (including understanding calories and other nutritional content). covered x 3 optional	Understand and apply the principles of a healthy and varied diet. Know what constitutes a healthy diet (including understanding calories and other nutritional content). Know the principles of planning and preparing a range of healthy meals. covered
	Origins of food	AOL: World Make observations about the world around them. covered breadth	AOL: World Make observations about the world around them. covered optional breadth	Understand where food comes from. covered	Understand where food comes from. covered	Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. covered	Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. covered	Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. covered x 3 optional x 4	Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. covered
Comparison	Compare and contrast	AOL: Exp A&D Share their creations, explaining the process they have used. optional x 2	AOL: Exp A&D Share their creations, explaining the process they have used. covered x 4 optional x 9	Explore and evaluate a range of existing products. covered x 2 optional	Explore and evaluate a range of existing products. covered optional	Understand how key events and individuals in design and technology have helped shape the world. covered	Investigate and analyse a range of existing products. covered x 3	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. covered	Investigate and analyse a range of existing products. covered x 4
Significance	Significant people	AOL: Exp A&D Use pictures, interests and experiences to inspire their creations. breadth	AOL: Exp A&D Use pictures, interests and experiences to inspire their creations. covered x 2 breadth	Explore and evaluate a range of existing products. covered optional	Explore and evaluate a range of existing products. covered x 2	Understand how key events and individuals in design and technology have helped shape the world. covered optional	Understand how key events and individuals in design and technology have helped shape the world. covered x 3 optional	Understand how key events and individuals in design and technology have helped shape the world. covered	Understand how key events and individuals in design and technology have helped shape the world. covered

