

SILVERHILL PRIMARY SCHOOL DESIGN AND TECHNOLOGY OVERVIEW

Intent Statement for Design and Technology

The intent of Silverhill Primary School's Design Technology (DT) curriculum is to develop children's skills and knowledge in design, structures, mechanisms, electrical control and a range of materials, including food. Our curriculum encourages children's creativity and encourages them to think about important issues such as the quality of the products they are using, as well as the health and safety requirements of the equipment they use.

	EYFS – Expressive Art and Design	Year 1	Year 2
Construction Key Stage 1 Only	Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park.	<p>Can They Make Simple Plans Before Making Objects, E.G. Drawings, Arranging Pieces Of Construction Before Building?</p> <p>Can They Select Appropriate Resources And Tools For Their Building Projects?</p> <p>Can They Talk With Others About How They Want To Construct Their Product?</p>	<p>Can They Consider How To Improve Their Construction?</p> <p>Can They Develop Their Own Ideas From Initial Starting Points?</p> <p>Can They Incorporate Some Type Of Movement Into Models?</p> <p>Can They Make Sensible Choices As To Which Material To Use For Their Constructions?</p>

	Year 1	Year 2
Mechanisms Key Stage 1 Only	<p>Can They Cut Materials Using Scissors?</p> <p>Can They Describe The Materials Using Different Words?</p> <p>Can They Make A Product Which Moves?</p> <p>Can They Say Why They Have Chosen Moving Parts?</p>	<p>Can They Add Some Kind Of Design To Their Product?</p> <p>Can They Join Materials Together As Part Of A Moving Product?</p>

	EYFS – Expressive Art and Design	Year 1	Year 2
Use of materials Key Stage 1 Only	<p>Explore different materials freely, to develop their ideas about how to use them and what to make.</p> <p>Develop their own ideas and then decide which materials to use to express them.</p> <p>Join different materials and explore different textures.</p> <p>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p>	<p>Can They Make A Structure/Model Using Different Materials?</p> <p>Can They Make Their Model Stronger If It Needs To Be?</p> <p>Is Their Work Tidy?</p>	<p>Can They Join Material In Different Ways?</p> <p>Can They Measure Materials To Use In A Model Or Structure?</p> <p>Can They Use Joining, Folding Or Rolling To Make It Stronger?</p>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Textiles	<p>Can They Describe How Different Textiles Feel?</p> <p>Can They Make A Product From Textiles By Gluing?</p>	<p>Can They Cut Textiles?</p> <p>Can They Explain Why They Chose A Certain Material?</p> <p>Can They Join Materials Together To Make Something?</p> <p>Can They Measure Textile?</p>	<p>Can They Choose Textiles Both For Their Appearance And Also Qualities?</p> <p>Can They Join Textiles Of Different Types In Different Ways?</p>	<p>Can They Devise A Template?</p> <p>Can They Explain How To Join Things In A Different Way?</p> <p>Do They Think What The User Would Want When Choosing Textiles?</p> <p>Have They Thought About How To Make Their Product Strong?</p>	<p>Can They Make Up A Prototype First?</p> <p>Can They Use A Range Of Joining Techniques?</p> <p>Do They Think What The User Would Want When Choosing Textiles?</p> <p>How Have They Made Their Product Attractive And Strong?</p>	<p>Have They Thought About How Their Product Could Be Sold?</p>

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	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cooking and Nutrition	<p>Can They Cut Food Safely?</p> <p>Can They Describe The Texture Of Foods?</p>	<p>Are They Hygienic In The Kitchen?</p> <p>Can They Describe The Properties Of The Ingredients They Are Using?</p> <p>Can They Explain What It Means To Be Hygienic?</p> <p>Can They Think Of Interesting Ways Of Decorating Food They Have Made, Eg, Cakes?</p> <p>Do They Wash Their Hands And Make Sure Surfaces Are Clean?</p>	<p>Can They Choose The Right Ingredients For A Product?</p> <p>Can They Describe How Their Combined Ingredients Come Together?</p> <p>Can They Make Sure That Their Product Looks Attractive?</p> <p>Can They Set Out To Grow Plants Such As Cress And Herbs From Seed With The Intention Of Using Them For Their Food Product?</p> <p>Can They Use Equipment Safely?</p>	<p>Do They Know What To Do To Be Hygienic And Safe?</p> <p>Have They Thought What They Can Do To Present Their Product In An Interesting Way?</p>	<p>Can They Describe What They Do To Be Both Hygienic And Safe?</p> <p>How Have They Presented Their Product Well?</p>	<p>Can They Explain How Their Product Should Be Stored With Reasons?</p> <p>Can They Set Out To Grow Their Own Products With A View To Making A Salad, Taking Account Of Time Required To Grow Different Foods?</p>

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Developing, Planning and Communicating Ideas.	Develop their own ideas and then decide which materials to use to express them.	<p>Can They Explain What They Want To Do?</p> <p>Can They Think Of Some Ideas Of Their Own?</p> <p>Can They Use Pictures And Words To Plan?</p>	<p>Can They Choose The Best Tools And Materials? Can They Give A Reason Why These Are Best?</p> <p>Can They Describe Their Design By Using Pictures, Diagrams, Models And Words?</p> <p>Can They Think Of Ideas And Plan What To Do Next?</p>	<p>Can They Describe Their Design Using An Accurately Labelled Sketch And Words?</p> <p>Can They Put Together A Step-By-Step Plan Which Shows The Order And Also What Equipment And Tools They Need?</p> <p>Can They Show That Their Design Meets A Range Of Requirements?</p> <p>How Realistic Is Their Plan?</p>	<p>Can They Come Up With At Least One Idea About How To Create Their Product?</p> <p>Can They Produce A Plan And Explain It To Others?</p> <p>Can They Suggest Some Improvements And Say What Was Good And Not So Good About Their Original Design?</p> <p>Do They Take Account Of The Ideas Of Others When Designing?</p>	<p>Can They Come Up With A Range Of Ideas After They Have Collected Information?</p> <p>Can They Produce A Detailed Stepby-Step Plan?</p> <p>Can They Suggest Some Alternative Plans And Say What The Good Points And Drawbacks Are About Each?</p> <p>Do They Take A User's View Into Account When Designing?</p>	<p>Can They Follow And Refine Their Plan If Necessary?</p> <p>Can They Justify Their Plan To Someone Else? Can They Use A Range Of Information To Inform Their Design?</p> <p>Can They Use Market Research To Inform Plans?</p> <p>Can They Work Within Constraints?</p> <p>Do They Consider Culture And Society In Their Designs?</p>

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	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Evaluating processes and products	Share their creations, explaining the process they have used.	<p>Can They Describe How Something Works?</p> <p>Can They Talk About Their Own Work And Things That Other People Have Done?</p>	<p>Can They Explain What Went Well With Their Work?</p> <p>If They Did It Again, Can They Explain What They Would Improve?</p>	<p>Can They Explain What They Changed Which Made Their Design Even Better?</p>	<p>Can They Begin To Explain How They Can Improve Their Original Design?</p> <p>Can They Evaluate Their Product, Thinking Of Both Appearance And The Way It Works?</p> <p>Do They Take Time To Consider How They Could Have Made Their Idea Better?</p> <p>Have They Thought Of How They Will Check If Their Design Is Successful?</p>	<p>Can They Evaluate Appearance And Function Against The Original Criteria?</p> <p>Do They Check Whether Anything Could Be Improved?</p> <p>Do They Keep Checking That Their Design Is The Best It Can Be?</p>	<p>Did They Consider The Use Of The Product When Selecting Materials?</p> <p>Does Their Product Meet All Design Criteria?</p> <p>Have They Given Considered Thought About What Would Improve Their Product Even More?</p> <p>How Well Do They Test And Evaluate Their Final Product? Is It Fit For Purpose?</p> <p>What Would Improve It?</p> <p>Would Different Resources Have Improved Their Product?</p> <p>Would They Need More Or Different Information To Make It Even Better?</p>

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working with tools, equipment, materials and components	<p>Join different materials and explore different textures.</p> <p>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p>	<p>Can They Explain What They Are Making?</p> <p>Can They Explain Which Tools Are They Using?</p>	<p>Can They Join Things (Materials/ Components) Together In Different Ways?</p>	<p>Can They Use Equipment And Tools Accurately?</p>	<p>Are They Conscience Of The Need To Produce Something That Will Be Liked By Others?</p> <p>Can They Show A Good Level Of Expertise When Using A Range Of Tools And Equipment?</p> <p>Can They Tell If Their Finished Product Is Going To Be Good Quality?</p> <p>Do They Work At Their Product Even Though Their Original Idea Might Not Have Worked?</p>	<p>Can They Explain How Their Product Will Appeal To The Audience?</p> <p>Can They Explain Why Their Finished Product Is Going To Be Of Good Quality?</p> <p>Can They Use A Range Of Tools And Equipment Expertly?</p> <p>Do They Persevere Through Different Stages Of The Making Process?</p>	<p>Can They Use Tools And Materials Precisely?</p> <p>Do They Change The Way They Are Working If Needed?</p>

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	Year 3	Year 4	Year 5	Year 6
Electrical and Mechanical Components Key Stage 2 Only	<p>Can They Make A Product Which Uses Both Electrical And Mechanical Components?</p> <p>Can They Use A Number Of Components?</p> <p>Can They Use A Simple Circuit?</p> <p>Do They Select The Most Appropriate Tools And Techniques To Use For A Given Task?</p>	<p>Are They Confident About Trying New And Different Ideas?</p> <p>Can They Add Things To Their Circuits?</p> <p>How Have They Altered Their Product After Checking It?</p>	<p>Can They Refine Their Product After Testing It?</p>	<p>Can They Incorporate A Switch Into Their Product?</p> <p>Can They Think Of Ways In Which Adding A Circuit Would Improve Their Product?</p> <p>Can They Use Different Kinds Of Circuit In Their Product?</p>

	Year 3	Year 4	Year 5	Year 6
Mouldable materials Key Stage 2 Only	<p>Can They Use A Range Of Techniques To Shape And Mould?</p> <p>Do They Select The Most Appropriate Materials?</p> <p>Do They Use Finishing Techniques?</p>	<p>Can They Use A Range Of Advanced Techniques To Shape And Mould?</p> <p>Do They Use Finishing Techniques Showing An Awareness Of Audience?</p>	<p>Are They Motivated Enough To Refine And Further Improve Their Product Using Mouldable Materials?</p>	<p>Can They Justify Design In Relation To The Audience?</p> <p>Can They Justify Why The Chosen Material Was The Best For The Task?</p>

	Year 3	Year 4	Year 5	Year 6
Stiff and flexible sheet materials Key Stage 2 Only	<p>Can They Join Materials?</p> <p>Can They Work Accurately To Make Cuts And Holes?</p> <p>Do They Use The Most Appropriate Materials?</p>	<p>Can They Measure Carefully So As To Make Sure They Have Not Made Mistakes?</p> <p>How Have They Attempted To Make Their Product Strong?</p>	<p>Are Their Measurements Accurate Enough To Ensure That Everything Is Precise?</p> <p>How Have They Ensured That Their Product Is Strong And Fit For Purpose?</p>	<p>Can They Hide Joints So As To Improve The Look Of Their Product?</p> <p>Can They Justify Why They Selected Specific Materials?</p> <p>How Have They Ensured That Their Work Is Precise And Accurate?</p>