

SPRING HILL DESIGN TECHNOLOGY

CURRICULUM- EYFS



AUTUMN

Expressive Art and Design- Creating with Materials

Exploration, Sensory Play & Early Mark-Making
Focus: exploring materials freely, experimenting with tools, developing confidence

Colour Exploration, Painting Skills & Early Artistic Decisions
Focus: beginning to use colour purposefully, exploring paint techniques

Foundations: Enjoying Music, Stories & Imaginative Play
Focus: joining in, exploring sound, beginning imaginative play.

Singing with Confidence, Exploring Instruments & Early Storytelling
Focus: matching pitch, exploring sound, developing narrative foundations.

SPRING

Expressive Art and Design- Creating with Materials

Malleable Materials, Construction & Decoration
Focus: manipulating materials, early design thinking, joining techniques

Textiles, Collage & Creating Texture
Focus: exploring fabrics, combining materials, creating textures

Musical Shape, Group Performances & Developing Storytelling
Focus: singing with melodic shape, using instruments with purpose.

Story Development, Rhythm & Confident Group Performance
Focus: confident storytelling, rhythmic awareness, expressive performance.

SUMMER

Printing, Patterns & Collaborative Creating
Focus: deliberate pattern-making, printing techniques, teamwork

ELG Readiness: Independent Creating, Colour Choices & Purposeful Art
Children should now be working towards/meeting the ELG for Creating with Materials.

Creating Own Songs, Rhythm Patterns & Independent Narratives
Focus: creativity, rhythm copying, expressive language
ELG Readiness: Independent Performance, Improvisation & Storytelling
Children should now be working toward or meeting the ELG for Being Imaginative & Expressive.

SPRING HILL DESIGN TECHNOLOGY

CURRICULUM- YEAR 1



AUTUMN

Are all food wraps healthy?

Lesson 1: To know where ingredients found in wraps come from by exploring products.

Lesson 2: To know how to cut, spread, grate and fold using the correct tools and equipment.

Lesson 3: To design and be able to talk about a healthy and appealing product.

Lesson 4/5: To select from and use a wide range of ingredients and equipment to make a wrap.

Lesson 6: To evaluate my ideas and product against a design criteria.

SPRING

How can I make my card move?

Lesson 1: To explore and understand how slider and lever mechanisms work.

Lesson 2: To know how to make a range of slider and lever mechanisms.

Lesson 3: To design a card with a slider or lever mechanism.

Lesson 5: To make a card with a slider or lever mechanism.

Lesson 6: To evaluate how well the mechanism in my card works.

SUMMER

How are hand puppets made?

Lesson 1: To share our thoughts about existing puppet products.

Lesson 2: To know how to join fabrics using a needle and thread. (Basic Running stitch)

Lesson 3: To design an attractive hand puppet.

Lesson 4: To know how templates help when working with fabrics.

Lesson 5: To choose from a range of materials to make a hand puppet.

Lesson 6: To evaluate my puppet against a given design criteria.

SPRING HILL DESIGN TECHNOLOGY

CURRICULUM- YEAR 2



AUTUMN

Strong and Stable!

Lesson 1: To explore different types of structures.

Lesson 2/3: To know how to make a structure stronger, stiffer and more stable.

Lesson 4: To be able to design a structure (chair) and talk about how it is strong, stiff and stable.

Lesson 5: To select from and use a range of materials to construct a mock-up chair.

Lesson 6: To explore and evaluate the strength of our mock-up chairs.

SPRING

How do vehicles move?

Lesson 1: To know how wheel and axle products work.

Lesson 2: To know which construction materials are used to make wheel and axle mechanisms.

Lesson 3: To design a vehicle with a wheel and axle mechanism.

Lesson 5: To know how to construct a wheel and axle mechanism.

Lesson 6: To evaluate how well our wheel and axle mechanisms work.

SUMMER

Splendid Salads!

Lesson 1: To know where the ingredients found in salads come from and how salads can vary.

Lesson 2: To design a salad (using ICT) and discuss how it is different.

Lesson 3: To know how to use a range of equipment to prepare a salad dish.

Lesson 4: To evaluate how varied our salad dishes are.

SPRING HILL DESIGN TECHNOLOGY

CURRICULUM- YEAR 3



AUTUMN

Perfect pizza choices!

Lesson 1: To explore and analyse a range of pizza toppings.

Lesson 2: To know that pizza ingredients are grown in different locations and during different seasons.

Lesson 3: To develop and communicate ideas for pizzas through discussion and annotated sketches.

Lesson 4: To select from and know how to use the appropriate tools to make our pizzas.

Lesson 6: To consider the views of others when evaluating my product.

SPRING

How do puppets work with linked levers?

Lesson 1: To analyse linked lever products and consider how appealing and fit for purpose they are.

Lesson 2: To practice making linked levers and understand how to strengthen the mechanism.

Lesson 3: To create a design criteria for linked levers.

Lesson 4: To create an annotated sketch of a puppet.

Lesson 5: To make a prototype of a puppet including linked levers.

Lesson 6: To consider the views of others when evaluating my product.

SUMMER

Hold it together!

Lesson 1: To investigate the different types of shell structures found in school.

Lesson 2: To know how shell structures are reinforced, stiffened and strengthened.

Lesson 3: To use research to develop a design criteria. To draw annotated sketches of their designs.

Lesson 4: To select from and use the appropriate construction materials to make a desk tidy.

Lesson 5: To evaluate how well their product meets their own design criteria.

SPRING HILL DESIGN TECHNOLOGY

CURRICULUM- YEAR 4



AUTUMN

Make it move!

Lesson 1: To know how individuals like Elon Musk and Mary Jackson have shaped the world.

Lesson 2: To understand the mechanical system of a pulley and explore how they work

Lesson 3: To develop ideas and draw exploded diagrams to show our ideas for a pulley in a motorised car.

Lesson 4: To know which materials are the most functional and aesthetically pleasing for our products.

Lesson 5: To know which tools and pieces of equipment are needed to create our motorised car.

Lesson 6: To evaluate the effectiveness of our pulley systems.

SPRING

What makes a dip vegan?

Lesson 1: To know how individuals like Ella Woodward have promoted vegan dishes.

Lesson 2: To evaluate dips made for the vegan diet and communicate our ideas through discussion.

Lesson 3: To design our own product suitable for a vegan diet

Lesson 4: To know which ingredients and equipment are needed to make a vegan dip.

Lesson 5: To evaluate their product using the views of others.

SUMMER

How can we carry it?

Lesson 1: I can explore different bags and learn about textile designs, explaining how their ideas inspire strong, useful and appealing designs.

Lesson 2: I can design a book bag for a specific user, using appealing decorations and motifs linked to a favourite story.

Lesson 3: I can explain the purpose of different stitches and how I used tools safely.

Lesson 4/5: I can sew fabric pieces together neatly and securely to create my book bag.

Lesson 6: I can test my bag for strength and use and explain how well it meets my design goals, suggesting improvements.

SPRING HILL DESIGN TECHNOLOGY CURRICULUM- YEAR 5



AUTUMN

How do automata toys move?

Lesson 1: To understand the mechanical system of CAMS.

Lesson 2: To choose a range of tools and equipment to make CAM mechanisms.

Lesson 3: To research and develop a design criterion for an appealing automaton character display.

Lesson 4: To develop my automaton character display ideas through computer aided design.

Lesson 5: To accurately use a range of tools and equipment to create our products.

Lesson 6: To evaluate our products against our design criteria.

SPRING

Light it up!

Lesson 1: To develop an awareness of how Smart Home devices work. (lights, thermostat, speakers, security cameras)

Lesson 2: To develop annotated diagrams to explain how Smart Home Devices work.

Lesson 3: To know how sensors are used in Smart Home Devices (AI systems- programming)

Lesson 4: To develop ideas using computer aided design (sensored night light)

Lesson 5: To communicate ideas through exploded diagrams.

Lesson 6: To use prototypes to model our ideas.

Lesson 7: To evaluate their product using the views of others.

SUMMER

What can we add to our stew?

Lesson 1: To know where and when ingredients found in stew are grown. To know that some ingredients are reared, caught and processed.

Lesson 2: To evaluate existing stews, discuss the healthiness of them and develop a design criterion.

Lesson 3: To design a healthy stew using annotated sketches to share our ideas.

Lesson 4: To model the process of making our stew using a design diagram.

Lesson 5: To accurately use the correct tools to make our stew.

Lesson 6: To evaluate our product, using the views of others to help improve it.

SPRING HILL DESIGN TECHNOLOGY

CURRICULUM- YEAR 6



AUTUMN

Who's the king of burgers?

Lesson 1: To know where and when, ingredients which are found in burgers, are grown and how they are processed.

Lesson 2: To analyse different burgers and develop a design criterion.

Lesson 3: To develop ideas for our own burgers and communicate our ideas through discussion.

Lesson 4: To prepare and cook a variety of burgers.

Lesson 5: To evaluate our products and consider the views of others to improve them.

SPRING

How will I keep my equipment safe?

Lesson 1: To understand how designers help to shape the world of fashion.

Lesson 2: To evaluate existing products based on their innovative design and functionality.

Lesson 3: To design an appealing pencil case and communicate our ideas using cross sectional diagrams.

Lesson 4/5: To know how to join and finish materials using cross, back and running stitch.

Lesson 6: To evaluate our products based on their functionality.

SUMMER

Light it up!

Lesson 1: I can describe features of Gothic design using key vocabulary.

Lesson 2: I can explain how electrical circuits work.

Lesson 3: I can create a labelled design showing Gothic style and electrical features.

Lesson 4/5: I can build a stable structure and add an electrical feature.

Lesson 6: I can evaluate the success of the model against design criteria.