

Design and Technology Long Term Plan – EYFS

Nursery

Understanding of the World, Creating with Materials

- To create using small world and construction.
- To explore different materials.
- To make simple models and talk about them.
- To join materials and explore textures.
- To explore using 2D and 3D structures.
- To freely explore different materials and think about how they may use them.
- To develop their own ideas.
- To develop their own ideas and decide which materials to use to express them
- To use some cooking techniques

Vocabulary

Create, construct, explore, join, material, texture, 2D/3D, materials, cooking

Reception

Understanding of the World, Creating with Materials

- To explore different techniques for joining materials.
- To design and make using a range of materials.
- To use collage materials and different textures.
- To use some cooking techniques
- To use materials to explore sculpture.
- To experiment with printing techniques.
- To share creations, talk about process and evaluate their work.
- To adapt work where necessary.
- To design and make models with a purpose.
- To create a simple picture with a moving part.
- To explore using 2D and 3D structures.

Vocabulary

Techniques, join, design, sliders, adapt, test, evaluate, create, sculpture, 2D/3D

Design and Technology Long Term Plan – KS1

Year 1	<u>Structures: Constructing windmills</u> (Lesson 1 - 3; omit lesson 4)	<u>Mechanisms: Moving story book</u> (Lesson 1 - 3; omit lesson 4) NB: Use the Storybook template (see Resources) for all pupils in Lesson 2 to save time.	<u>Mechanisms: Wheels and axles</u> (4 lessons)	<u>Textiles: Puppets</u> (4 lessons)	<u>Cooking and nutrition: Smoothies</u> (Lessons 1, 2, 5 and 6; omit lessons 3 and 4)
Year 2	<u>Mechanisms: Fairground wheel</u> (4 lessons)	<u>Cooking and nutrition: Balanced diet</u> (Lessons 1, 2, 5 and 6; omit lessons 3 and 4)	<u>Structures: Baby bear's chair</u> (Lesson 2 - 4; omit lesson 1)	<u>Textiles: Pouches</u> (Lessons 1 – 3; omit lesson 4)	<u>Mechanisms: Moving monster</u> (4 lessons)

Design and Technology Long Term Plan – KS2

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
Year 3	Textiles: Cross stitch and appliqué Cushions or Egyptian collars (4 lessons)	Structures: Constructing a castle (Lessons 2 – 4; omit lesson 1)	Cooking and nutrition: Eating seasonally (Lessons 2, 4, 5 and 6; omit lessons 1 and 3)	Digital world: Wearable technology (Lessons 2-4; omit lessons 1 and 6) NB. This means that there is no evaluation in the unit.	Mechanical system: Pneumatic toys (Lessons 2 – 4; omit lesson 1) NB. Watch the tea box in lesson 1, as a physical example.
Year 4	Mechanical systems: Making a slingshot car (4 lessons)	Textiles: Fastenings (Lessons 2-4; omit lesson 1)	Structures: Pavilions (4 lessons)	Cooking and nutrition: Adapting a recipe (Lessons 1-3 and lesson 5; omit lessons 4 and 6)	Electrical systems: Torches (Lessons 2 - 4; omit lesson 1)
Year 5	Cooking and nutrition: Developing a recipe (6 lessons) (Lessons 2-4 and lesson 6; omit lessons 1 and 5)	Electrical systems: Doodlers (Lessons 1 - 3; omit lesson 4)	Mechanical systems: Making a pop-up book (Lessons 1 - 3; omit lesson 4) NB. Use the Jack and Jill book and moving parts template in Lesson 2, to reduce time.	Digital world: Monitoring devices (4 lessons)	Structures: Bridges (4 lessons)

Year 6

Structure: Playgrounds

(Lessons 1 - 3; omit lesson 4) NB. Skip the surrounding landscape and complete the playground structures in lesson 3.

Mechanical systems: Automata toys

(4 lessons)

Electrical systems: Steady hand game

(Lesson 2 - 4; omit lesson 1)

Digital world: Navigating the world

(5 lessons)

NB: You could complete lesson 5 as an assembly or celebratory event.

Cooking and nutrition: Come dine with me

(Lessons 2, 4, 5 and 6; omit the optional lessons 1 and 3)