

Primary Phase Design and Technology

Policy

2024 - 2025

Start Date: September 2024

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Signed by:

Headteacher
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Date Sept 24

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Date Sept 24

Design & Technology Intent - Implementation - Impact

<u>Intent</u>

"The innermost value of life is deep silence. From it arise the various areas of activity, tiny to tremendous activity. All these areas of life are integrated and perfectly coherent when the inner depth of consciousness, which is pure consciousness, shakes hands with the outer dynamism of great activity. This is brought about by Transcendental Meditation." Maharishi Mahesh Yogi

"The reservoir of energy and intelligence is at the source of thought. It's obvious that whatever energy and intelligence is displayed through our action, it all comes through our thinking - thinking is the basis of action - and whatever energy and intelligence is displayed in thinking originates from the source of thought. The secret of success is in handling the source of all energy." Maharishi Mahesh Yogi

At Maharishi School we strive for each child to reach the full potential of their creativity and their creative intelligence. We do this by practising Transcendental Meditation and Word of Wisdom and by following the path of Consciousness-based education, applying Maharishi's principles of teaching.

Design & Technology education is naturally interwoven with the fundamental aspects of Consciousness-based education:

- **Receptivity**: Children explore and take in the world around them, they observe the work of engineers, designers and manufacturers. They research and evaluate existing products and gather information about the needs of the **user** and the **purpose** of the products they will be designing.
- **Intelligence**: Pupils' intelligence enables them to assimilate and integrate the information they have gathered, building up and organising their knowledge.
- Knowledge: With this knowledge, they are able to make design decisions in order to optimise functionality, innovation and authenticity of their products.
- **Experience**: Guided by their knowledge, children select materials and tools, make prototypes, and test their designs. This lets them experience aspects of all 4 worlds **physical** (the materials and tools they are

working with, their prototypes and final products), **mental** (exploring their mental images derived from their research into users' needs, as well as their ideas about functionality, innovation etc.), **social & cultural** (influences from existing products and designs from around the world, collaborative work, peer review etc.) as well as the **transcendental** world (when they work intuitively and access deeper levels of creativity, made possible by TM and WoW)

 Expression: Children are able to express themselves and their knowledge throughout the design and making processes. They also test and evaluate their products, leading to improvement and truly personal outcomes.

The 'design - make- evaluate' process of D&T also aligns with Consciousness-based education in the cycles of

Knowledge - Action - Achievement - Fulfilment

Essentially, each project involves the acquisition of knowledge and a process whereby this knowledge is put into action (such as designing, prototyping, testing etc.). The result is a finished product and a sense of achievement. Achievement leads to fulfilment and celebration of pupils' work (e.g. exhibition, assembly, rewards).

At Maharishi School we strive for each child to be able to:

- develop confidence in designing, making and evaluating products in line with the six key Design and Technology principles:
 - User
 - Purpose
 - Functionality
 - Design Decisions
 - Innovation
 - Authenticity
- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users

- design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values
- be challenged and inspired to create and experience high quality design and technology projects
- learn how to take risks
- critique, evaluate and test their ideas and products and the work of others

Our school aims to deliver Design and Technology lessons guided by the following six principles as agreed by The National Curriculum 2014 and the National Curriculum Expert Group for Design and Technology:

User: Pupils should have a clear idea of who they are designing and making products for, considering their needs, wants, values, interests and preferences. The intended users could be themselves or others, an imaginary or story-based character, a client, a consumer or specific target group.

Purpose: Pupils should be able to clearly communicate the purpose of the products they are designing and making. Each product they create should be designed to perform one or more defined tasks. Pupils' products should be evaluated through use.

Functionality: Pupils should design and make products that work/function effectively in order to fulfil users' needs, wants and purposes.

Design decisions: Pupils need opportunities to make their own design decisions. Making design decisions allows pupils to demonstrate their creative, technical and practical expertise, and draw on learning from other subjects. Through making design decisions pupils decide on the form their product will take, how their product will work, what task or tasks it will perform and who the product will be for.

Innovation: When designing and making, pupils need some scope to be original with their thinking. Projects that encourage innovation lead to a range

of design ideas and products being developed and are characterised by engaging open-ended starting points for learning.

Authenticity: Pupils should design and make products that are believable, real and meaningful to themselves and others.

<u>Implementation</u>

"Knowledge always has a purpose. The purpose of knowledge is effective action. The purpose of effective action is achievement; the goal of achievement is fulfilment. So the purpose of the knowledge is ultimately the fulfilment of the knower." Maharishi Mahesh Yogi

EYFS

Our EYFS provision is based on 'Working with the revised Early Years Foundation Stage: Principles into Practice' by Julian Grenier.

Design & Technology is interwoven in many aspects of early development, for example:

'Physical Development':

- provision of a wide range proprioceptive and tactile inputs
- refinement of motor skills through safely using a range of materials and tools
- supports awareness of two sides of the body, motor planning, eye-hand coordination and visual-spatial perception

'Language and Communication':

 talking about their work, checking understanding, articulating ideas and thoughts, new vocabulary, etc

'Understanding the World'

 exploring the natural world through observing and investigating materials and their properties.

We provide children with a range of materials to construct with, encourage them to think about and discuss what they want to make, discuss problems and how they might be solved as they arise, and we reflect with children on how they achieved their aims.

<u>Design</u>:

Children begin to use the language of designing and making, e.g. join, build and shape. They learn about planning and adapting initial ideas to make them better.

Make:

Children learn to construct with a purpose in mind. They select tools and techniques needed to shape, assemble and join materials.

Evaluate:

Children begin to talk about changes made during the making process, e.g. making a decision to use a different joining method

Technical Knowledge:

Children begin to understand some of the tools, techniques and processes involved in food preparation. They have basic hygiene awareness.

Children learn how to use a range of tools with care and precision, e.g. scissors, hole punch, stapler. They learn how everyday objects work by investigating them.

KS1 and KS2

Our KS1 and KS2 Design & Technology curriculum is based on the D&T Association's progression framework, the National Curriculum and the Key Learning Documents by Lancashire Curriculum Advisory Team. It covers the areas of

- Structures
- Mechanisms
- Mechanical Systems
- Electrical Systems
- Textiles

with ICT being an integral part of various projects.

Through our curriculum, our pupils engage with the core activities of D&T:

Design

 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; - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design (CAD).

Make

- select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately;
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic.

Evaluate

- investigate and analyse a range of existing products;
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work;
- understand how key events and individuals in design and technology have helped shape the world.

Technical Knowledge

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures;
- understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages);
- 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.

Equal opportunities and inclusion

All children from all backgrounds have equal access to our D&T curriculum and we aim to provide suitable learning opportunities regardless of gender, ethnicity or home background. We adapt our teaching to meet pupils' individual needs so that each child can reach their full potential. We identify SEND and AGT and provide suitable learning challenges within our projects.

An integral part of our D&T provision is also to teach our pupils how to use tools and materials safely and how to care for equipment and for the environment.

Our curriculum plan: Design & Technology Long Term Plan

Progression framework: Progression Framework KS1 KS2.pdf

Guided by the National Curriculum, the D&T association and the Lancashire Key Learning Documents, our planning reflects the progression of skills from EYFS to the end of Key Stage 2 and all planning is available in the Primary Staff shared drive: D&T resources

DESIGN & TECHNOLOGY LONG TERM PLAN YEARS 1-3

	AUTUMN 2	KEY LEARNING	SPRING 2	KEY LEARNING	SUMMER 2	KEY LEARNING
YEAR 1	MECHANISMS SLIDES AND LEVERS • WORKING WITH SLIDERS AND LEVERS • MOVING PICTURES (LINKS TO LITERACY)	CENEPATING, MODELLING AND COMMUNICATING IDEAS. PLANNING MAKING. SELECTING TOOLS AND USING FINISHING TECHNIQUES. EXPLORING BOOKS AND PRODUCT'S, EVALUATING OWN PRODUCT'S, EVALUATING OWN PRODUCT AGAINST OPHGINAL CRITERIA. EXPLORINGS SLIDERS AND LEVERS. UNDERSTANDING TYPES OF MOVEMENT: TYPES OF MOVEMENT: TECHNICAL VOCABULARY.	STRUCTURES FREESTANDING STRUCTURES • WHOSE HOME? • CHAIRS FOR THREE BEARS • LET'S GET BUILDING AND USING CONSTRUCTION KITS EFFECTIVELY • DOOR HINGES HELPSHEET	GENERATING DESIGN IDEAS; DEVELIDPING MODELLING AND EXPLAINING USING TALK, MOCK-UDS AND DRAWINGS. PLANNING MAKING. PLANNING MAKING. SELECTING TOOLS AND NEW AND RECYLLED AND THE AND RECHNIQUES. EXPORTING ENSTRUGE. FRESTAMING STRUCTURES; EVALUATING THEIR OWN PRODUCTS AGAINST ORIGINAL CRITERIA. KNOW ABOUT STRENGTHENING STRENGTHENING	TEXTILES TEMPLATES AND JOINING TECHNIQUES THREE BEARS' PICNIC BLANKET	GENERATING DESIGN IDEAS; DEVELOPING MODELLING AND EXPLAINING USING TALK, MOCK-UPS AND DRAWINGS. SELECTING TOOLS AND INEW AND RECYCLED MATERIALS; USING FINISHING TECHNIQUES. EXPLORING EXISTING FREESTANDING STRUCTINES; EVALUATING THEIR OWN PRODUCTS AGAINST ORIGINAL CRITERIA. KNOW ABOUT STRENGTHENING STRUCTURES; KNOWLEDGE OF VOCABULARY.
YEAR 2	Mechanisms Wheels and Axles - Toys - Let's look at vehicles	GENERATE IDEAS AND SIMPLE DESIGN CARTERALA. DEVELOP AND COMMUNICATE IDEAS THROUGH DRAWNINGS AND MOCK-UPS. SELECT A PRANGE OF TOOLS AND EQUIPMENT AND MATERIALS TO PERFORM PRACTICAL TASKS. ÉYDLORE WHEELS AND AALES AND EYQLUATE THEIR IDEAS AND PRODUCTS AGAINST ORIGINAL CRITERIA.	MECHANISMS WHEELS AND AXLES WHEELS - WORKING WITH WHEELS AND AXLES	GENERATE IDEAS AND SIMPLE DESIGN CARTERA. DEVELOP AND COMMUNICATE IDEAS THROUGH DRAWINGS AND MOCK-UPS. SELECT A RAMGE OF TOOLS AND ROUNKINT AND MATERIALS TO PERFORM PRACTICAL TASKS. EXPLORE WHERE, AND AXLES AND PRODUCTS AGAINST ORIGINAL CRITERIA. ORIGINAL CRITERIA.	TEXTILES TEMPLATES AND JOINING TECHNIQUES JOINING AND FASTENING FABRICS PUPPETS	DESIGN A FUNCTIONAL, APPEALING PROUCT FOR A CHOSEN USER AND PURPOSE. GENERATE, EVVELOP, AND COMMUNICATE IDEAS. USE A RANGE OF TEXTLES, TOOLS AND EQUIPMENT TO PERFORM PRACTICAL TASKS. EXPLORE AND EXALUATE EXISTING TEXTLE PRODUCTS AND THEIR OWN IDEAS AND PRODUCTS. UNDERSTAND HOW 3-D TEXTLE PRODUCTS ARE MADE. USING JOINING. TEXTLE PRODUCTS ARE MADE. USING JOINING.
YEAR 3	MECHANICAL SYSTEMS LEVERS AND LINKAGES • MOVING HISTORY BOOK • LEVERS AND LINKAGES POSTER AND SUPPORT PACK	GENERATE REALISTIC IDEAS AND USE ANNOTATED SKETCHES AND PROTOTYPES TO DEVELOP, MODEL AND COMMUNICATE IDEAS. SELECT AND USE TOOLS WITH SOME ACCURACY TO CUT. SHAPE AND TOIN PAPER AND CARD. INVESTIGATE AND ANALYSE THEIR OWN AND OTHERS' PRODUCTS WITH LEVER AND LINKAGE MECHANISMS. UNDRESTAND AND USE LEVER AND LINKAGES, AND FIXED AND LINKAGES, AND FIXED AND LOOSE PIVOTS.	TEXTILES TEMPLATES AND JOINING TECHNIQUES JOINING AND FASTENING FABRICS BENDY BAGS	DESIGN A FUNCTIONAL, APPEALING PRODUCT FOR A CHOSEN USER AND PURPOSE. GENERATE, DEVELOP, AND COMMUNICATE DECAS. USE A RANGE OF TEXTLES, TOOLS AND EQUIPMENT TO PERFORM PRACTICAL TASKS. EXPLORE AND EXALLATE EXPLORE AND EXALLATE EXPLORE TEXTLE PRODUCTS AND THER OWN DECAS AND PRODUCTS UNDERSTAND HOW 3-D TEXTLE PRODUCTS ARE MADE, USING JOINING. TEMPLATES AND FINISHING TEMPLATES AND FINISHING CREATE TWO IDENTICAL SHAPES.	ELECTRICAL SYSTEMS SIMPLE CIRCUITS AND SWITCHES (INCLUDING PROGRAMMING AND CONTROL) • DEVELOPING HANDMADE SWITCHES • NIGHT LIGHTS (LINKS TO LITERACY) • TORCHES, LAMPS AND LANTERNS	USE ANNOTATED SHETCHES, CROSS-SECTIONAL AND EXPLODED DIAGRAMS TO DEVELOP AND COMMUNICATE IDEAS. SELECT AND USE TOOLS WITH SOME ACCUPACY TO CUT. SHAPE, TOIN AND FINISH. USE CONSTRUCTION MATERIALS AND ELECTRICAL COMPONENTS ACCORDING TO THEIR FUNCTIONAL PROPERTIES. AND AESTHETIC QUALITIES. UNDERSTAND AND USE ELECTRICAL SYSTEMS IN THEIR PRODUCTS, SUCH AS SERIES CRECUTS INCORPORATING SWITCHES, BULBS AND BUZZERS.

DESIGN & TECHNOLOGY LONG TERM PLAN YEARS 4-6

	AUTUMN 2	KEY LEARNING	SPRING 2	KEY LEARNING	SUMMER 2	KEY LEARNING
Yеая 4	STRUCTURES SHELL STRUCTURES (INCLUDING COMPUTER-AIDED DESIGN) • BANISH BROKEN BISCUITS	GENERATE IDEAS AND DESIGNS, DEVELOPING THEM THROUGH ADARVIS OF SHELL STRUCTURES AND USE (AAD TO MODEL AND COMMUNICATE DEAS. PARATIS OF SHELL STRUCTURES AND SECTIVATE DEAS. PARATIS OF SHARE DEAS. PARATIS DEAS. PARATIS DEAS. PARATIS DEAS. PARATIS DEAS. COMPUTER "GENERATED FINISHING THEIR CHOICES. USE COMPUTER "GENERATED FINISHING TECHNOUS." EVALUATE SHELL STRUCTURES. DEVELOR MONONE OF NETS OF CURES AND CHOON TO CHOSING SAID MONE COMPLETS OF SHARES AND HOW TO COMPLETE STRUCTURES.	Textiles 2D shape to 3D product • Aprons	GENERATE DESIGN CRITERIA FOR AN APPEALING, FUNCTIONAL PRODUCT POR SPECIFIC USERS. PRODUCT POR SPECIFIC USERS. PRODUCT POR SPECIFIC USERS. PROTUCE ANNOTITED PRICES. SELECT FRANCIA AND FOR PROTUCT PARTEN PRICES. SELECT FRANCIA AND FOR PROTUCTS. TENTININGS ACCORDING TO THE FUNCTIONAL CHIESTIANTOS. INTERSIGNET A RANGE OF 3-D TEXTILE PRODUCTS. TEST THEIR PRODUCTS. TEST THEIR PRODUCTS. TEST THEIR PRODUCT AGAINST THE ORIGINAL CRITERIA AND WITH THE INTENDED USER.	MECHANICAL SYSTEMS PNEUMATICS • MAKE A MASCOT	GENERATE THEIR OWN PEALISTIC DEAS AND USE ANNOTATED SHICTIONES AND PROTOTYPES TO DEVELOP, MODEL AND COMMINICATE DEAS. SELECT AND USE TOOLS WITH SOME ACCURACY, CUT AND YOUR MATERIALS AND COMPONENTS SUCH AS TUBING, SYTRINGES AND BALLONS. INVESTIGATE AND PIND INTEGRATE AND PIND INTEGRATE AND PIND INTEGRATE THEIR OWN PRODUCTS AND DEAS AGAINST CRITERIA AND USERS MEEDS. UNDERSTAND AND USE PHEUMATIC MECHANISMS AND PRODUCTS AND DEAS AGAINST CRITERIA AND USERS MEEDS. UNDERSTAND AND USE PHEUMATIC MECHANISMS.
YEAR 5	MECHANICAL SYSTEMS CAMS • MECHANISMS WITH A MESSAGE • GEARS AND PULLEYS • WORKING WITH WHEELS AND AXLES	GENERATE A DESIGN PROM RESEARCH, DEVELOP A SPECIFICATION, MODEL AND COMMUNICATE IDEAS. PORDUCE LISTS OF TOOLS AND MARE ALCORATEN ASSENBLED AND WELL WINBERD PRODUCTS WITHIN CONSTRAINTS. COMPARE PINAL PRODUCT TO THE ORIGINAL SPECIFICATION; TEST PRODUCTS WITH THE INTENDED USER AND CARTICALIY EVALUATE THE PRODUCT, CONSIDERING THE PRODUCT, CONSIDERING THE PRODUCT. CONSIDERING THE PROSPECT. I INVESTIGATE PARMOUS MANUFACTURING AND ENGINEERING COMPANIES RELEVANT TO THE PROJECT.	STRUCTURES FRAME STRUCTURES BIRD HIDE CHALLENGE WORKING WITH PAPER STRAWS	RESEARCH USER NEEDS AND DEVELT INNOVATIVE DEAS INTO A DESIGN SPECIFICATION. FORMULATE & PLAN WITH A STEP LIST OF TASKS AND RESOURCES. - USE TOOLS TO ACCURATERALS TO MACHE FRANKONGKS. - USE FINISH OF TECHNIQUES SUITABLE FOR THE PRODUCT SHAPE AND TON MATERIALS TO MAKE FRANKONGKS. - USE FINISHING TECHNIQUES SUITABLE FOR THE PRODUCT SHAPE REVIEWANT AND CHITICALLY EVALUATE THEIR PRODUCT SALINGS AGAINST A RANGE OF CRITERIA. RESEARCH KEY EVENTS AND INDIVIDUALS RELEVANT TO FRAME STRUCTURES.	ELECTRICAL SYSTEMS MORE COMPLEX SWITCHES AND CIRCUITS (INCLUDING PROGRAMMING, MONITORING AND CONTROL) - ALARMING VEHICLES - DEVELOPING HANDMADE SWITCHES - HANDMADE SWITCHES HELP SHEET	DEVELOR A DESIGN SPECIFICATION PORA PONCHONAL PRODUCT THAT RESPONDS AUTOMATICALLY TO CANAGES IN THE ENVIRONMENT. FORMALATE A STEP—BY-STEP POAN TO MANING, LETING POAN TO MANING, LETING POAN TO MANING, LETING POS COMPONENTS USE A COMPONENTS USE A COMPONENTS DESIGNATICAL TO WORK AUTOMATICALLY IN ETESPONSE TO CLANGES IN THE ENVIRONMENT. TEST AND EVALUATE THE SYSTEM TO DEMONSTRATE TEST AND EVALUATE THE SYSTEM TO DEMONSTRATE TEST AND EVALUATE THE SYSTEM TO DEMONSTRATE TO DEMONSTRATE
YEAR 6	TEXTILES COMBINING DIFFERENT FABRIC SHAPES • FANCY A BAG? • DESIGNER BAGS	GENERATE AND COMMUNICATE PRODUCE DETAILED LISTS OF SERBARCH. PRODUCE DETAILED LISTS OF FORMULATE STEP-BY-STEP PLANS FOR MAKING. INVESTIGATE AND AMALYSE TEXTLE PRODUCTS LINED TO THER FINAL PRODUCT AND COMPARE THE BINAL PRODUCT TO THE ORIGINAL DESIGN SPECIFICATION. KNOW THAT A 3-D TEXTLE PRODUCT CAN BE MAKEN FROM A COMBINATION OF PATTERN PRODUCT CAN BE MAKEN SHOW A COMBINATION OF PATTERN PRODUCT CAN BE MAKEN SHOW A COMBINATION OF PATTERN PRODUCT CAN BE MAKEN SHOW A SHOW SHOW CAN BE SAND DIFFERENT FABRICS AND THAT FABRICS CAN BE STRENGTHENED AND REINFORD AND REINFORD	TEXTILES COMBINING DIFFERENT FABRIC SHAPES (INCLUDING COMPUTER—AIDED DESIGN) • DESIGNER BAGS • DESIGNING WITH TEXTILES	GENERATE INNOVATIVE IDEAS THROUGH RESEARCH AND DEVELOP THESE USING MOCK-UPS AND PROTOTYPES INCLUDING USING DESIGN FUNCTIONAL. APPENDED DESIGN. APPENDED DESIGN. APPENDED DESIGN. APPENDED DESIGN. APPENDED DESIGN THE INTENDED USER THAT ARE FIT FOR PURPOSE BASED ON A SIMPLE DESIGN SPECIFICATION. SELECT AND USE A RANGE OF TOOLS AND EQUIPMENT. INCLUDING CAP, TO MAKE PRODUCTS THAT ARE ACCURATELY ASSEMBLED AND WELL FINISHED. WORK WITHIN THE CONSTRAINTS OF TIME. RESOURCES AND COST.	MECHANICAL SYSTEMS PULLEYS AND GEARS GEARS AND PULLEYS FAIRGROUNDS FRAMES FOR MOTORISED PROTECTS	GENERATE IDEAS THROUGH RRESEACH AND DEVELOP AND COMMUNICATE A SIMPLE DESIGN SPECIFICATION. SELECT USE A RANGE OF TOOLS AND EQUIPMENT TO MAKE PRODUCTS THAT THAT ARE ACCUPATENT ASSEMBLED AND WELL FINISHED WITHIN THE CONSTRAINTS OF THM. RESOURCES AND COST. COMPARE THE FINISHED WITHIN THE CONSTRAINTS OF THM. RESOURCES AND COST. COMPARE THE FINISHED WITHIN THE CONSTRAINTS OF THM. RESOURCES AND THE PESSEM. MANNIFACTURE AND FUNISHCATION AND TEST THE QUALITY OF THE DESIGN. MANNIFACTURE AND FUNISHCATE FAMOUS MANNIFACTURING AND ENGINEERING COMPANIES RELEVANT TO THE PROCECT.

<u>Impact</u>

"The field of pure consciousness is the very source of life energy, the reservoir of wisdom, the origin of all power in nature, and the fountain-head of all success in the world." Maharishi

Assessment

We assess pupils by observing them as they design, make and evaluate, and we talk to them about their work, asking targeted questions, assessing the ongoing process, not only the finished product.

Children's answers, together with seeing their individual progression of skills, gives us the necessary insight into their specific needs for further development.

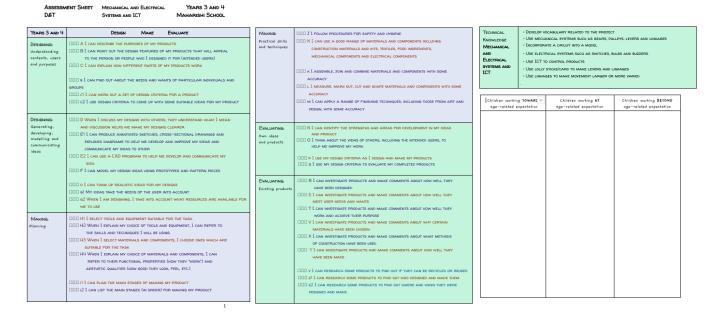
We also take into account the class as a whole, and we actively involve children in their assessment by using self-assessment and peer assessment. Pupils' progress is documented in their D&T folders.

We record pupils' progress against specific attainment targets, identifying pupils who work at, towards or beyond age-related expectations. The attainment targets are based on the Design & Technology association's Progression framework, rephrased by G.Jennings, as well as on the Key learning documents by the Lancashire Curriculum Advisory Team.

Areas of assessment:

- ability to develop, plan and communicate ideas;
- ability to work with tools, equipment, materials and components to make quality products;
- ability to evaluate processes and products;
- ability to reflect on and evaluate present and past design and technology, its uses and its impact;
- knowledge and understanding of materials and components;
- technical knowledge in the areas of mechanisms, structures, mechanical and electrical systems and textiles.

Our assessment sheets can be found here: https://drive.google.com/drive/folders/1EZ9WCvAr0QVDnEbWU8Nzc3wiYAtOkUJV?usp=sharing Example of an Assessment sheet:



Our Design & Technology curriculum

- develops our pupils' skills and knowledge in design, structures,
 mechanisms, electrical control and a range of materials, including food
- gives children the opportunity to develop skills, knowledge and understanding of designing and making functional products
- supports the progressive development of fundamental technological skills
- promotes critical thinking
- encourages children to think about important issues, such as sustainability
- nurtures creativity and innovation through design, and by exploring the designed and made world in which we all live and work
- helps to teach maths, english and other subjects on the curriculum in a fun manner and puts these subjects into context, making them easier to digest and more understandable
- inspires our pupils to become resourceful, innovative, enterprising and capable citizens.