Beaucroft School DT Overview

Rationale: At Beaucroft School, it is our vision for every student to engage, enjoy and achieve, developing self-esteem and resilience in preparation for adulthood. We want our Beaucroft community to THRIVE and be Thoughtful and caring Happy and Safe Resilient Independent Valued Empowered. Through our teaching of Design and Technology, we want to inspire our pupils to use their imagination to solve real life, practical problems. We want to prepare our pupils for a healthy lifestyle with an understanding of where their food comes from and what their body needs.

Topic Knowledge

Use a range of small tools, including scissors, paintbrushes and cutlery. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Share their creations, explaining the process they have used.

Skills Progression

Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them Choose the right resources to carry out their own plan. Use one-handed tools and equipment Make imaginative and complex 'small worlds' with blocks and construction kits. Develop their own ideas and then decide which materials to use to expressthem. Develop their small motor skills so that they can use a range of tools competently, safely and confidently.

Curriculum Sequence

Topic related 3D model making, using

junk, fabrics, clay, wood, glue, paint.

Sensory play Forest School Lego and brick model building. Wooden train set and construction Develop design related knowledge

and vocabulary

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts for

Pupils can generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. Pupils can select and use materials, components, tools and equipment. Pupils can explore and evaluate a range of existing products. Pupils can build structures, and use mechanisms for

Topic related 3D model making, using junk, fabrics, clay, wood, glue, paint. Sensory play Forest School Lego and brick model building. Wooden train set and construction tovs. Develop design related knowledge and

vocabulary

Busy Things

example, levers, sliders, wheels and axles, in their ICT art and design programmes e.g. products

> Topic related 3D model making, expanding methods of construction and materials.

Trips and experiences of local places, art and design. Residentials

Forest School

Forces, motion and magnets

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts for example, the home, school, leisure, culture. enterprise, industry and the wider environment.

example, the home and school, gardens and

playgrounds, the local community, industry and the

wider environment.

Pupils use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose. Pupils can generate, develop, model and communicate their ideas through discussion, drawing and using digital media. Pupils can select and use a wider selection of materials, components, tools and equipment. Pupils can explore and evaluate a range of existing products. Pupils can understand and use electrical systems in their products for example, series circuits incorporating switches, bulbs, buzzers and motors.

> Topic related 3D model making, expanding methods of construction and materials.

Trips and experiences of local places, art and design.

Residentials

College experiences Increased ICT skills

> Mini Enterprise Forest School

Links with science learning about gears, pulleys, cams, levers and linkages also Electrical circuits, lights. motors and buzzers.

> Links to accreditation through **Functional Skills and ASDAN**

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of domestic and local contexts for example, the home, health, leisure and culture, and industrial contexts for example, engineering, manufacturing, construction, food, energy, agriculture (including horticulture) and fashion.

Use a variety of approaches [for example, biomimicry and user-centred design], to generate creative ideas and avoid stereotypical responses develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools. Pupils select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture. Pupils select from and use a wider, more complex range of materials, components and ingredients, taking into account their properties. Pupils can understand and use the properties of materials and the performance of structural elements to achieve functioning solutions.