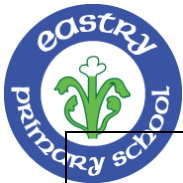




EASTRY C OF E PRIMARY SCHOOL KNOWLEDGE ORGANISERS

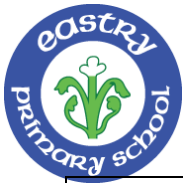


YEAR GROUP	6
SUBJECT	Design and technology
KEY VOCABULARY	concertina, truss, suspension, cable-stayed, arch, cantilever, beam, support, stability, system, aesthetics, seasonality, kneading, cross-section, functionality, process, manufacturer, market research,
END POINTS KNOWLEDGE	<p>I know how to draw on market research to inform design</p> <p>I know how to research user's individual needs, wants, requirements for design</p> <p>I know how to identify features of design that will appeal to the intended user</p> <p>I know how to create own design criteria and specification</p> <p>I know how to use research to come up with innovative design ideas</p> <p>I know how to follow and refine a logical plan.</p> <p>I know how to use annotated sketches, cross-sectional planning and exploded diagrams</p> <p>I know how to make design decisions, considering, resources and cost</p> <p>I know how parts of design will work, and how they are fit for purpose and can explain this</p> <p>I know how to independently model and refine design ideas by making prototypes and using pattern pieces</p> <p>I know how to use computer-aided designs to inform my learning</p> <p>I know how to use selected tools and equipment precisely and can produce suitable lists of tools, equipment, materials needed, considering constraints</p> <p>I know how to select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics</p> <p>I know how to create, follow, and adapt detailed step-by-step plans</p> <p>I know how product will appeal to audience; make changes to improve quality and explain this process</p> <p>I know how to use selected tools and equipment precisely and can produce suitable lists of tools, equipment, materials needed, considering constraints</p> <p>I know how to select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics</p>



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	<p>I know how to evaluate quality of design while designing and making; is it fit for purpose? I know that I must keep checking design is the best it can be. I know how to test and evaluate the final product and explain what would improve it and the effect different resources may have had I know how to evaluate how much products cost to make and how innovative they are I know how to research and discuss how sustainable materials are I know how to consider the impact of products beyond their intended purpose I know some inventors/designers/ engineers/chefs/manufacturers of ground-breaking products`</p> <p>I know about seasonality of foods and food processing methods I know some types of food that are grown, reared or caught in the UK or wider world</p> <p>I know how to adapt recipes to change appearance, taste, texture or aroma.</p> <p>I know some of the different substances in food and drink, and how they can affect health</p> <p>I know how to prepare and cook a variety of savoury dishes safely and hygienically including, where appropriate, the use of heat source.</p> <p>I know a range of techniques confidently such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking. I know how to incorporate different types of circuit in product (cc Science)</p> <p>I know how to suggest ways in which adding a circuit would improve product (cc Science)</p>
IT HELPS IF I ALREADY KNOW	<p>I know who the product is for: Consider needs/wants of individuals/groups when designing and ensure product is fit for purpose I can create my own design criteria I know how to produce a logical, realistic plan and explain it to others.</p>



EASTRY C OF E PRIMARY SCHOOL KNOWLEDGE ORGANISERS



I know how to use cross-sectional planning and annotated sketches
Use my knowledge to make design decisions considering time and resources.
Clearly explain how parts of product will work.
Know how to model and refine design ideas by making prototypes and using pattern pieces.
I can begin to use a computer program to design.

I know how to select and use tools/equipment with good level of precision
I know which material is the most appropriate, fit for purpose; explain choices, considering functionality
Create and follow detailed step by-step plan
Use my knowledge to explain how product will appeal to an audience
Accurately measure, mark out, cut and shape materials/components
Accurately assemble, join and combine materials/components
Accurately apply a range of finishing techniques Use techniques that involve a small number of steps
I know how to evaluate ideas and finished product against specification, considering purpose and appearance.
I know how to test and evaluate the final product.
I can evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose

I know through research how sustainable materials are.

I know how to refine my product after testing.
With support I know how to use cams, pulleys or gears to create movement.

I know how to be safe / hygienic and follow own guidelines.

I know how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.