Design Innovate

Research & exploration to understand & identify customer needs

Research

Well-conducted research provides information about current users and competitors. It also gives insight into the latest design trends.

Birds aren't the only things that like to enter nest boxes; predators and insects may also take up residence.

Birds such as sparrows and starlings often take over nesting holes used by tits. A hole size of 25mm will exclude larger species. Do not fix a perch on the front of any box, as this will encourage intruders. Birds don't need a perch in order to use the box.

By putting up nest boxes with different sized holes, you'l cater for a variety of species. Please remember that sparrows and starlings are in serious decline and may need help even more than the tits.

Predators

Nest box predators include cats, squirrels, rats, mice, stoats, weasels, woodpeckers and, in case of open fronted boxes, members of the crow family.

As predators mainly hunt early in the morning, most people are unaware of their presence.

A metal plate fixed around the entrance hole may deter woodpeckers and squirrels, while barbed wired, gorse or rose clippings above and below the box will give some protection against most mammals, such as cats. Various commercially available deterrents may also help reduce predation.

Assessing Risks

A risk assessment involves looking closely at something and deciding if there are any hazards that may be cause a risk to people. A risk assessment is used to figure out what needs to be done to prevent the risk from happening.

Specification

In order to optimise the project's efficiency, it is necessary to draw up a design specification which will detail the objectives, targets and restraints of the project. It is a document that may change as the project progresses and details your aspirations for the project.

A specification is a document that is used by designers to give them a list of criteria that they must stick to when designing a product. If a specification says that a product should have a certain feature and it does not, then the product would fail.

6 R's of sustainability

Sustainability means meeting our own needs without compromising the ability of future generations.

RETHINK: Design in a way that considers people and the environment.

REUSE: Use a product to make something else with all or parts of it.

RECYCLE: Reprocess a material or product and make something else.

REPAIR: When a product breaks down or doesn't work properly, fix it.

REDUCE: Cut down the amount of material you use.

REFUSE: Don't use a material or buy a product if it's bad for people or the environment.

ACCESS FM

ACCESS FM is the acronym for creating a great product in design technology,

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RETRIEVE & APPLY.

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ACCESS FM

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Ass	essing Risks		6 R's of sustainability	
What are the benefi	ts of producing a risk	Why are the 6 R's important when designing new products?		
• • •	f there are wires hanging on to classroom? Why is this	Can you think of a product that: Could be rethought?		
What are the three	main areas of a risk	Could be reused?		
assessment and what 1 w	t do they mean?	Could be recycled?		
	rhich means	Could be rep	aired?	
3w	hich means			
	CCESS FM M term to it's correct		Tools & Equipment me of the tools you may use in DT. Can	
Aesthetics	Impact the natural world	features.	their names, what it may be used for and	
Cost	Dimensions of the product	/=		
Customer	Who will buy it	Feature:	Feature: 	
Environment	What it does and how it works		Tool name:	
Safety	What it's made from and how it's made			
Size	What it looks like	Feature:	Feature:	
Function	How much is it sold for	How would yo	u hold a pair of scissors correctly?	
Materials/ Manufacture	Risks and dangers		u nord a pair of seissors correctly?	

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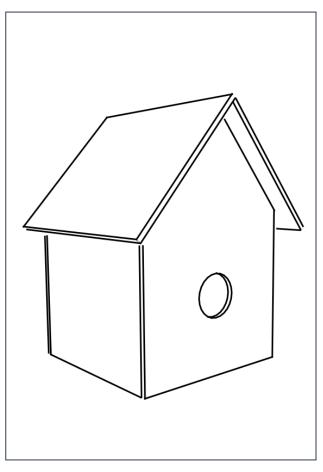
Design

Designers ideas are constantly evolving and changing. No two designers work will be the same as they will both draw on different expertise and influencers as inspirations.

Task - Design your birdbox in Pop Art Design with bright and vibrant colours

- You must show a clear inspiration to Pop Art
- It must be decorated with VIBRANT colours





CHALLENGE: See if you can draw the sketch of the birdbox and then add detail with Pop Art print and vibrant colours in the box below.