

Topic: Birdbox Project

Design Innovate

Research & exploration to understand & identify customer needs

RECALL.

Research

Well-conducted research provides information about _____. It also gives insight into the latest design _____.

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

1. Birds such as _____ often take over nesting holes used by tits. A hole size of _____ will exclude larger species. Do not fix a _____ of any box, as this will _____. Birds don't need a perch in order to use the box.
2. By putting up nest boxes with different sized holes, you'll _____. Please remember that sparrows and starlings are in _____ and may need help even more than the tits.

Predators

1. Nest box predators include _____ and, in case of open fronted boxes, members of the _____ family. As predators mainly hunt _____, most people are unaware of their presence.
2. A _____ may deter woodpeckers and squirrels, while barbed wired, gorse or rose clippings above and below the box will give some _____, such as cats. Various commercially available deterrents may also help _____.

Specification

In order to _____, it is necessary to draw up a design specification which will detail the _____ of the project. It is a document that may change as the project _____ and details your _____ for the project.

A specification is a _____ that is used by _____ to give them a _____ of _____ that they must stick to when _____ a product. If a _____ says that a _____ should have a certain _____ and it does not, then the product would _____.



ACCESS FM

_____: What does the product _____? Colour, shape, form, detail

CONSUMER: Who is it aimed at? _____?

_____: How much do you think the product would cost to buy? Why?

ENVIRONMENTAL: _____? Why?

_____: How big is the product? Why?

_____: Would the designer have had to take any _____ issues into account?

FUNCTION: What was the _____ designed to hold/Do? Does it work well?

_____: What _____ is it made from? Are they _____? How was it made? Is this the most _____ method?

6 R's of sustainability

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

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

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

_____: **Reprocess** a material or product and make **something else**.

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

_____: **Cut down** the amount of material you use.

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

Assessing Risks

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

Top 5 ways to keep yourself and others safe in the Technology workshop:

1. _____
2. _____
3. _____
4. _____
5. _____

Research

Based on the research you have just read, state why the products below would be fit for purpose as a birdbox.





Specification

What size hole will exclude intruders?

It is essential that the finished product must....

If the entrance for the residence of a birdbox is 25mm, what would be the external measurements of the overall birdbox?

It is desirable that the finished birdbox must....



ACCESS FM

Using ACCESS FM, describe the birdbox below. You **MUST** use whole sentences. Imagine you are describing the product to an Alien!

Materials

All projects involve the use of materials whether they are electronic components or resistant materials.

What are the three main categories of woods?

Resistant materials that are designed to break down naturally are known as what?

A material with dense physical properties will...

Your client has you to create a model of the birdbox before the mass production. What material would be suitable for this task?

What material would be the most suitable for the final mass produced birdbox? Why?

Topic:Lantern Project

Introduction to DT

The foundations for staying safe in Design Technology

RETRIEVE &
APPLY.

Assessing Risks

What are the benefits of producing a risk assessment?

What could happen if there are wires hanging on to the walk area of the classroom? Why is this dangerous?

What are the three main areas of a risk assessment and what do they mean?

1. _____ which means _____

2. _____ which means _____

3. _____ which means _____

6 R's of sustainability

Why are the 6 R's important when designing new products?

Can you think of a product that:
Could be rethought?

Could be reused?

Could be recycled?

Could be repaired?

Should be refused?

ACCESS FM

Join each ACCESS FM term to it's correct description

Aesthetics

Impact the natural world

Cost

Dimensions of the product

Customer

Who will buy it

Environment

What it does and how it works

Safety

What it's made from and how it's made

Size

What it looks like

Function


How much is it sold for


Materials/
Manufacture

Risks and dangers

Tools & Equipment

Below are some of the tools you may use in Design Technology. Can you identify their names, what it may be used for and features.

	Tool name: _____
Feature: _____ _____ _____	Feature: _____ _____ _____

	Tool name: _____
Feature: _____ _____ _____	Feature: _____ _____ _____

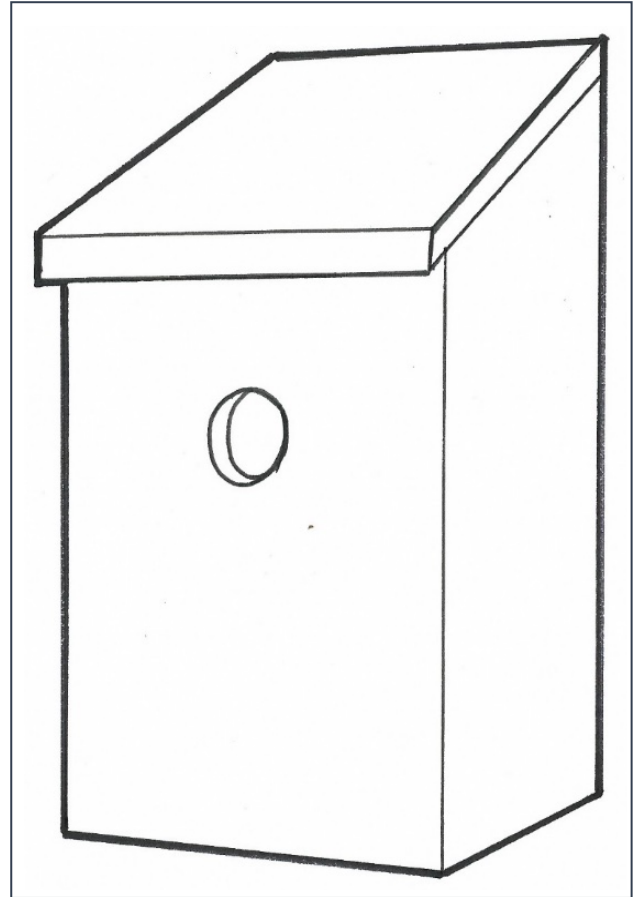
How would you hold a pair of scissors correctly?

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.

