

Design Brief

Ask, imagine and plan

engineering

What you need: Irish garden bird fact cards (robin, blackbird, blue tit, chaffinch) · Investigation Journal Design Brief pages · plain paper for extra group sketches · pencils and coloured pencils for labelling plans

Words to use

User need · Design plan · Success criteria

The problem

Design a bird feeder for Irish garden birds that holds seed, keeps the seed dry, and gives small birds a stable perch.

Who is it for?

Small Irish garden birds such as robin, blue tit, chaffinch and blackbird visiting the school grounds or local gardens

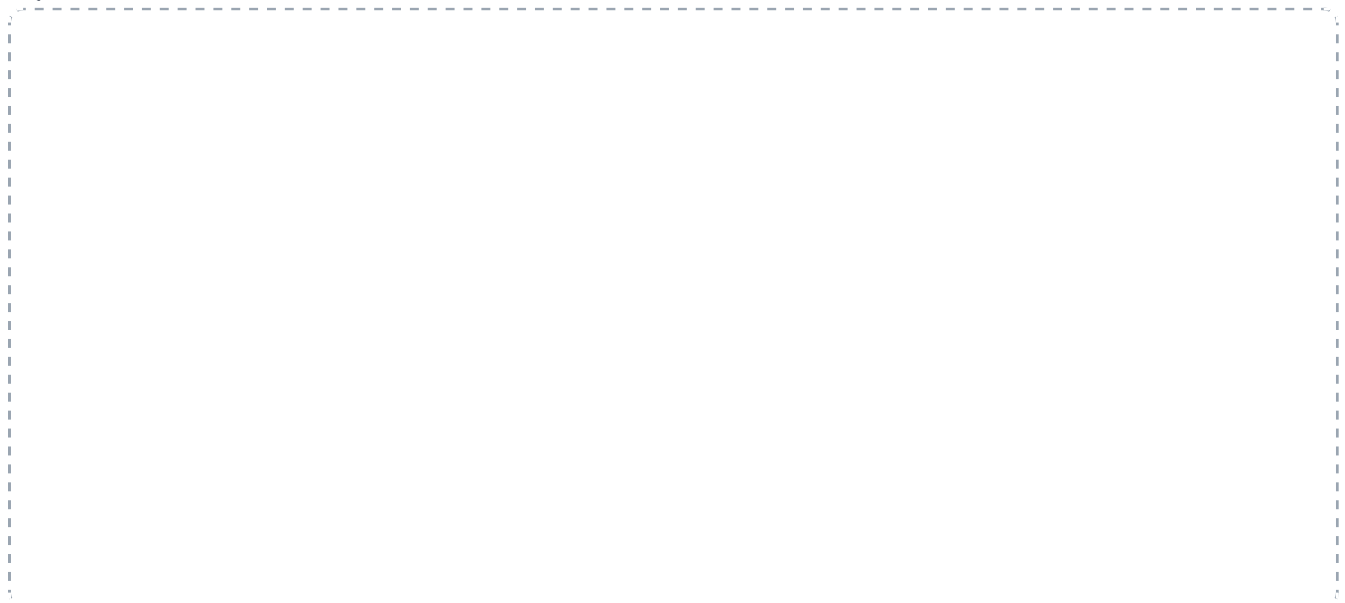
Their one real need

What it must do, and must NOT do

Use only everyday junk-modelling materials (clean plastic bottles, string, sticks, card) · Must be buildable in one lesson next time with adult help for hard cuts · Must address hold seed, keep seed dry, and stable perch

Risks and limits we noticed

My first ideas – draw and label them





Lesson 29

Check your drawing shows

Sketch your group's chosen feeder large on the Design Brief and Plan page • Label every main part • List the materials you will need next lesson • Show where seed is stored, how rain is kept off, and where the bird perches

What I will use

clean plastic bottles • string or garden twine • lollipop or garden sticks • card or bottle lids • scissors with adult help • bird seed for later testing

Our three success criteria – how we will check every feeder the same way

