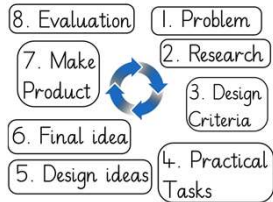


## Design process



## Vocabulary

Float / sink

Join, cut, fold, fix, frame, glue gun, scissors, ruler, cellotape, materials evaluate, predict existing product, research, design, model, prototype hard, soft, flexible, transparent, polystyrene, MDF disc

## Links to other subjects

Science: materials

Maths: positional language, measurement, and shapes

Art/Design: colour, layout, materials

Learning theme: Homes, pirates plans and adventures

## DT – Y1 Free standing structures

*A structure that stands on its own foundation or base without attachment to anything else*

### Key knowledge

Materials can join together

Designs have different themes

Objects are made from different materials

Free standing structures stand on their own foundation or base

An awareness of the key design process steps (Design, make, evaluate).

Boats must be able to float

Polystyrene, cotton reels and plastic lids all float



### Health and safety

We can cut wallpaper

We can use scissors safely

We can saw wood

### Key skills

Cut simple shapes from paper or thin card

Glue together materials (paper, craft sticks, card)

Use scissors safely

Measure by drawing around an object

Begin to follow an iterative design process

Simple verbal evaluation against design criteria

Saw wood with adult supervision.

Recognise where glue needs to be applied

Measure by drawing around an object.

We can investigate the effectiveness of different materials

We can model our ideas through drawing and talking



### Equipment used



## Outcomes

1. Designing and making a bedroom for Lego character
2. Designing and making a boat that floats for 1 minute



## Links to prior learning and next steps:

EYFS Design and making areas and construction resources  
Y4 Morse code machines