

Glenfield Infant School Knowledge Organiser



Year 1—Autumn 2

DT

Structures- pencil pots

What should I already know?

- I have used scissors to cut out.
- I have used glue to stick and join materials.
- I can use both scissors and glue safely.

1. What is a structure? What makes an object more stable?



We found man made structures and structures made by animals.



We explored how to feel more stable in a balance by making our base wider.



A structure is built to do a job.



A wider base makes something more stable.

4. How will I design my pencil pot to be stable? How will I make it appealing to a year 1?



What design will the user like best?



How will it be stable?

Design template Shape of the base and position of the modelling dough.	Design template Design for the main part of the pot.
Evaluation tick list: <input type="checkbox"/> The pencil pot has a wide, stable base. <input type="checkbox"/> I have added extra weight to keep it stable. <input type="checkbox"/> The pencil pot has an appealing design. <input type="checkbox"/> The pencil pot stays upright with pencils in it.	Something that went well: Something I could make better:

The user is the person the object is for. A wide base with added weight will stop it toppling over.



Vocabulary

structure Something that is built to do a job.

Base The bottom part of something that it stands on.

free-standing Can stand up on its own

design To make, draw or write plans for something.

stable Not likely to topple over.

unstable Likely to topple over.

evaluate Decide whether something meets the design criteria.

compare To say how things are the same or different.

better Nicer, easier to use or last longer.

worse Less nice, harder to use or breaks easily.

user The person that something is made for.

2. How can I build a stable tower?

These tall structures have a wider base and narrow top.



We tested which towers were more stable.

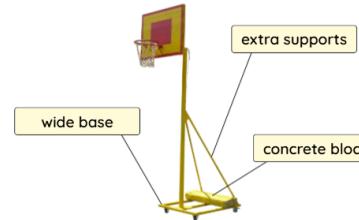


A wide base makes a structure more stable. New materials mean buildings can be taller than before.



3. How can I make a structure more stable?

How does a basketball hoop stay upright?



Adding weight to the base of a structure makes it more stable.

5. How can I join card together?



We tested which was the best method to join card together.

We used carefully cutting to cut a shape neatly.

Masking tape is quick and strong for sticking card together. Even cutting makes the pot stable and not wonky.



6. How stable is my pencil pot?

We tested our pots to check they were stable. We added weight and checked fixings.

We decorated our pots. We checked against our design.

Evaluation tick list: <input type="checkbox"/> The pencil pot has a wide, stable base. <input type="checkbox"/> I have added extra weight to keep it stable. <input type="checkbox"/> The pencil pot has an appealing design. <input type="checkbox"/> The pencil pot stays upright with pencils in it.



Evaluate means looking if something meets the design criteria.

