

Wednesday - Daily Breakdown

- 8.40 - 9.00 Register & Morning Challenge
- 9.00 - 9.30 Spelling
- 9.30 - 10.30 Literacy
- BREAK
- 10.45 - 11.50 PE
- LUNCH
- 12.40 - 1.00 STORY
- 1.00 - 1.55 DT
- 1.55 - 2.05 BREAK
- 2.05 - 2.55 DT

VISUAL TIMETABLE



Morning
Challenge 

Reading 

Literacy 

P.E. 
PHYSICAL EDUCATION

Lunch 

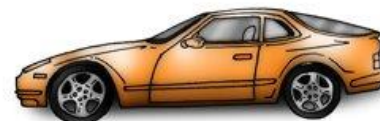
Science 

Music 

Complete the mathematics problem below and
write a short paragraph to show how you solved it.

I have three different coloured toy cars.

I like to line them up in a different order each time.



How many ways can you find for me to line up my cars?

How will you remember them?

Do you think there are any more? How do you know?

08.07.26



Lunches

Main: Roast chicken, stuffing and
potatoes

Vegetarian: Quorn grill, stuffing
and roast potatoes

School Packed Lunch: Cheese,
ham, tuna or jam

Reading 2- Reading for fluency

Today we are reading page 36-end

We are aiming for fluency, which means reading without stopping.



I'll read the text and then will jump read it together.



BRAIN BREAK



Literacy

Wednesday 8th July
T.B.A.T. plan ideas for a poem



Sulwe



Vocabulary

- Dark
- Light
- Bright
- Shadow
- sad
- Proud
- Strong
- Like
- as

Grammar & Punctuation

Can you use comparison words to compare light and dark to other things?

The sun is as bright as ...

The night is as dark as ...

The moon is as silver as ...

What does darkness feel like?

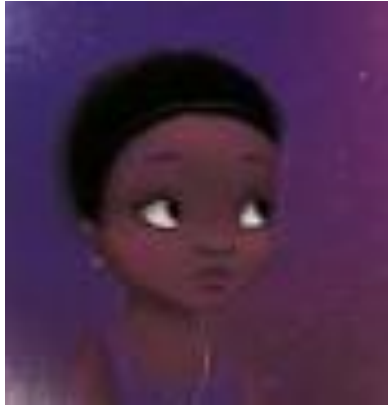
How does darkness make you feel?



Wednesday 8th July

TBAT: plan ideas for a poem

Mind map descriptions of light and
dark linked to Sulwe and her sister



BREAK

8.7.26

PE

Pioneers and Investigators

Rounders

LUNCH

Outcome

I can plan and design playground structures.

Keywords

stable

something that is balanced and doesn't fall over

design specification

describes what a product has to do

sketch model

a quick, low cost way to 3D model an idea or design

unique

something that is one of a kind

To create a playground, a designer will start with writing a **design specification**.

A **design specification** is something that describes what a product has to do.



Jun

The **design specification** would consider the following:

users

Who will be using the playground?

The users of the playground equipment are usually children.

purpose

What is the playground and the play equipment for?

The purpose of the playground equipment is to allow children to play, climb and enjoy learning.



Alex



Izzy



Sam

needs

What does the playground and play equipment need to do?

The playground equipment (structures) need to be:



Laura

Colourful, bright and fun so children want to use it.

Strong, so it will take lots of children playing on it.

Freestanding, so it will not fall over.



Sofia



Andeep

Before creating a new design, we can look at things that have already been designed and made.



Lucas

That is a brilliant idea!
We can look for things we like or dislike about the design.



Andeep

Match the parts of the **design specifications**:

users

Why are you building a playground?

purpose

Who is using the playground?

needs

What is important about the playground?

Task A

Discuss your design specification for a playground



Write a **design specification**.
Think about:



problem

What is the problem?

solution

How can we solve the problem?

users

Who will be using the playground?

purpose

What will the playground be used for?

needs

What is important about the playground design?

problem

The pupils are very upset because their playground is broken.

solution

The school is getting a new playground, so the pupils are helping the headteacher to design it.

users

The users will be the pupils.

purpose

To allow children to play, climb and enjoy learning.

needs

It needs to be fun, freestanding and strong.

Lesson outline

Designing playground structures



Creating a design specification



Sketch modelling a final design

Design specifications are used to help to create design ideas.

These designs ideas are a starting point for a designer and can be added to and changed as the designer finalises designs and starts on the making process.

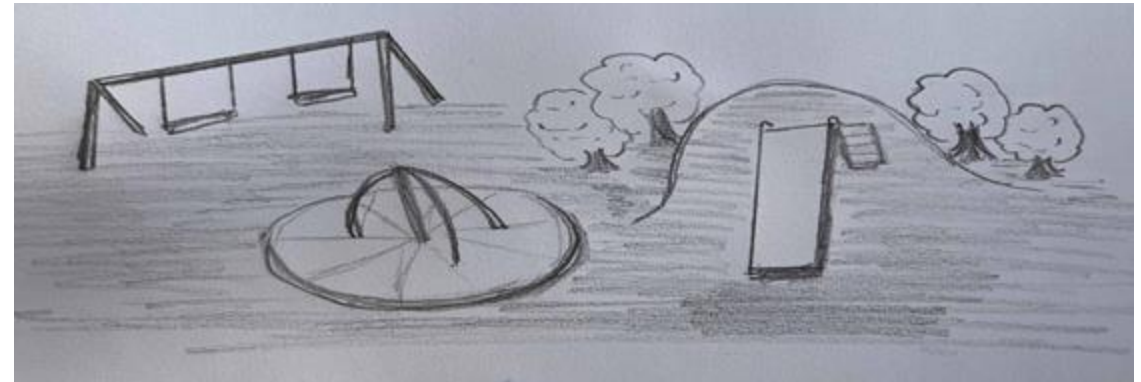


Jacob

The playground designer will design a **unique** playground that meets the **design specification**.

Design ideas can be shared using a quick sketch.

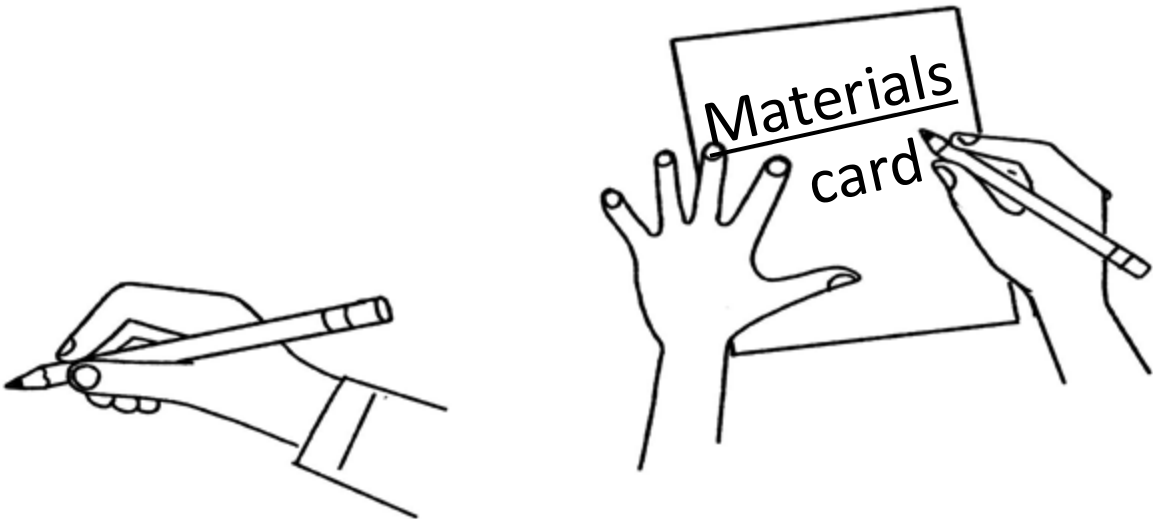
A sketch is a quick drawing which shows ideas and detail. They are usually done with a pencil on paper.



3D sketch

Designers often create a written list of the materials and equipment they will need.

If something needs to move, like a swing, it may need extra materials to allow it to move.



A material is what something is made from.



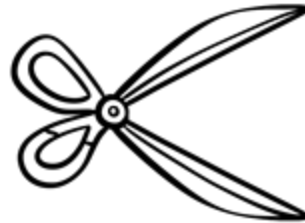
Alex

To make the playground equipment, you might need:

Joining techniques



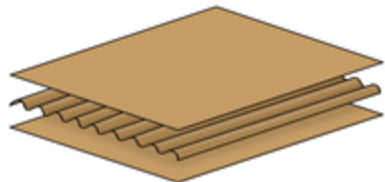
scissors



recyclable materials



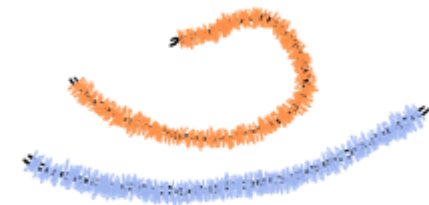
paper and card (different sizes and thicknesses)



cardboard or plastic straws



pipe cleaners





split pins



sticky tack



paper plates



Lollipop sticks

You might also
need...



Jacob

1. Create a **sketch model** of your playground design as a group.

Your playground might include:

- a swing / swings
- slide / slides
- climbing frame, netting, ropes
- roundabout / carousel
- wobbling animals or shapes
- fencing to secure it
- bin and benches

2. Make a list of materials for your final design.

Have a look at your sketch models

Plan how to make your **mock-up** playground.

Think about:

- what resources you will need
- which part you will start with
- how you will make any moving parts
- what details to add to your **mock-up**

The children talked about their sketch model and how they will make a **mock-up** model playground.



Lucas

I shared my **design specification** and sketch model with my friend. We talked about who the playground was for.

I realised my sketch model lacked detail. We talked about other details that could be added, such as steps.



Sofia

Lesson outline

Making playground structures



Preparing to make a mock-up playground



Creating a mock-up playground

Frame and shell structures are different types of structures, and you might choose to include both in your playground design.

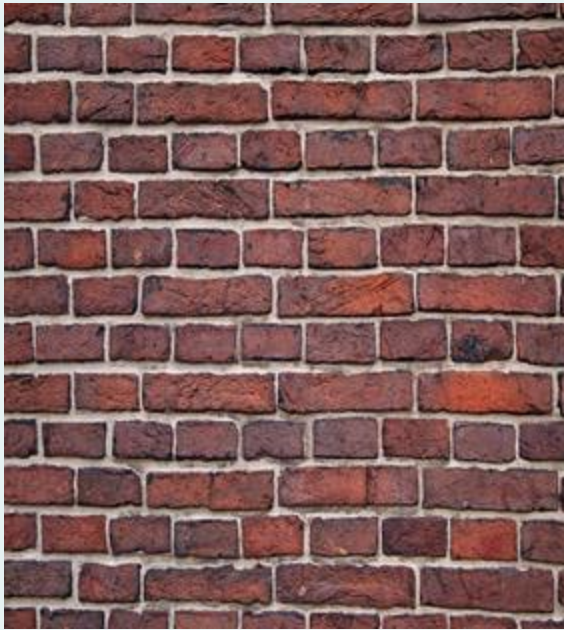


frame structures



shell structures

Which of the following shows a shell structure?



a



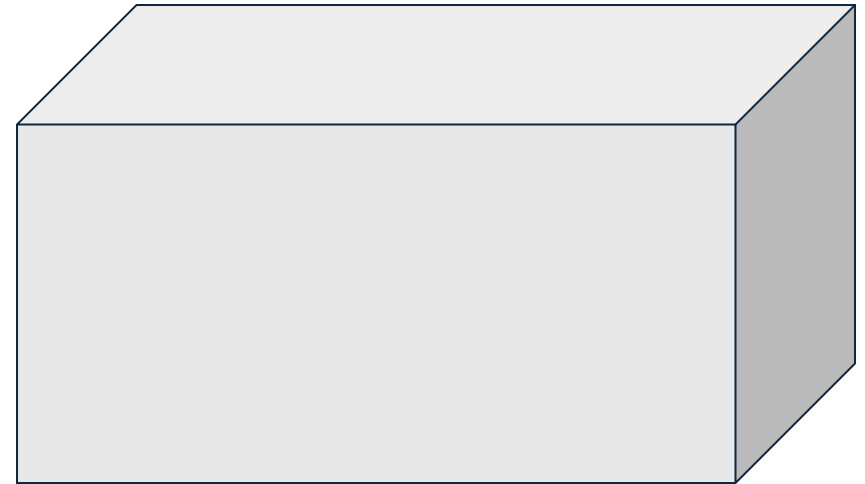
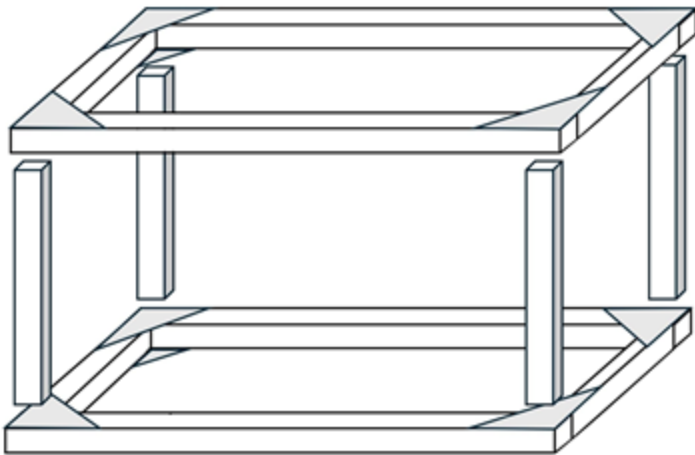
b



c



Sometimes a frame structure can have a cladding on the outside. This means the sides are covered so that the frame structure cannot be seen underneath.



This gives it a different appearance.

To make structures strong, stable and freestanding, they might need to be **reinforced**.



Laura

What does **reinforced** mean?

Reinforced means to make something stronger.



Andeep

Anchors hold things down. Swings need to be anchored so the movement doesn't lift them from the ground.

To add an anchor to a **mock-up** playground structure, you could use:



sticky tack



masking tape

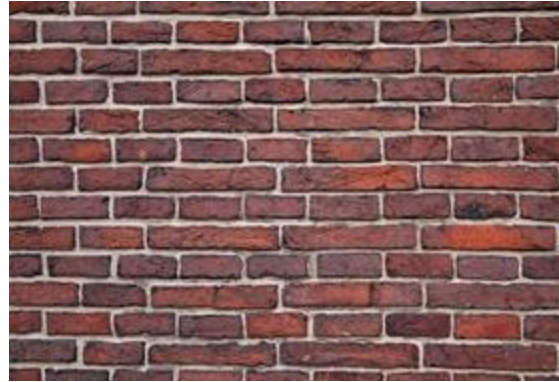


sticky tape

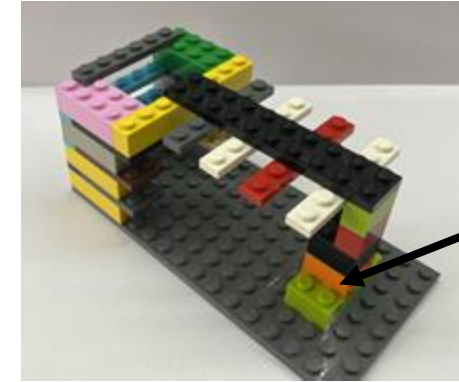
These are other ways to strengthen and **reinforce** a structure.



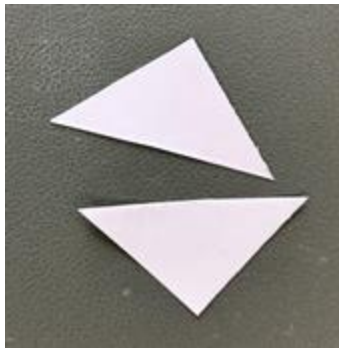
bracing



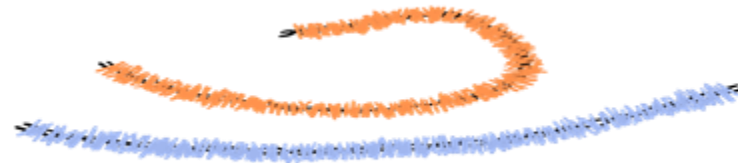
brick bonding



wider bases



triangulation

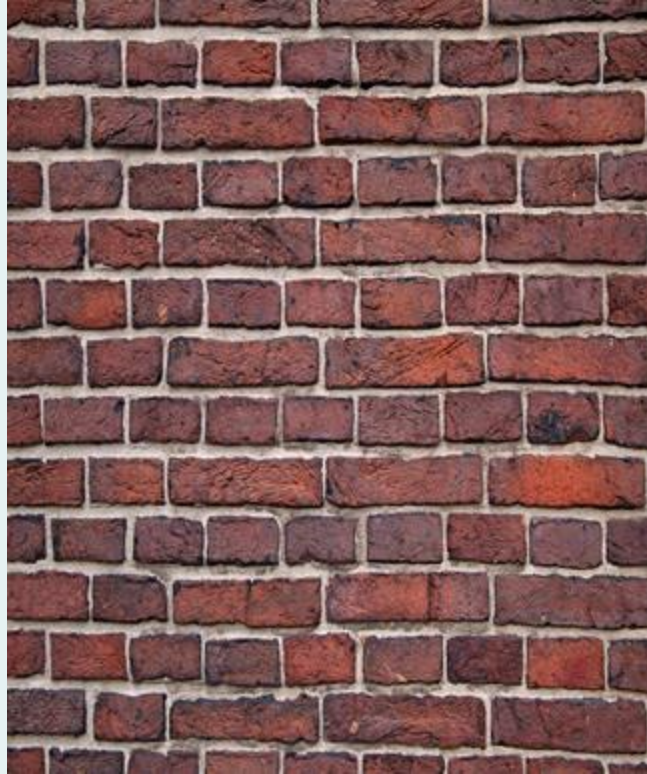


other ways to strengthen

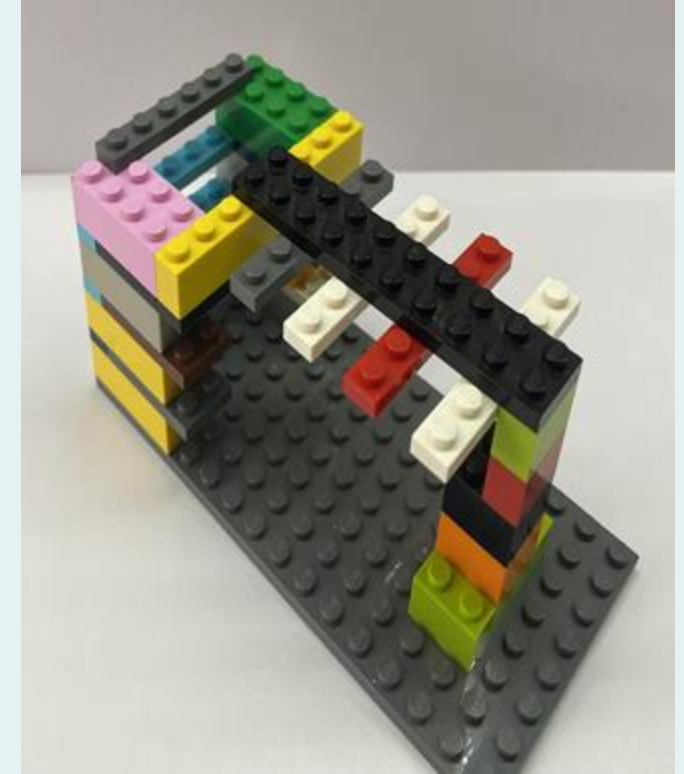
Which of the following shows bracing?



a

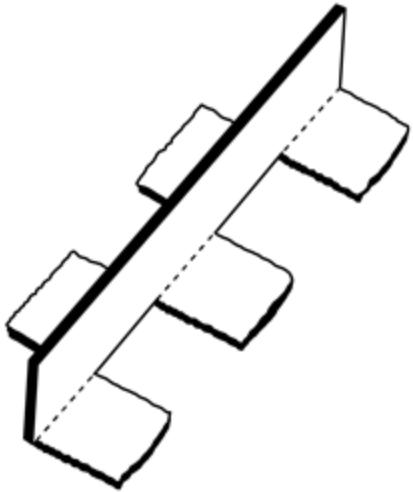


b

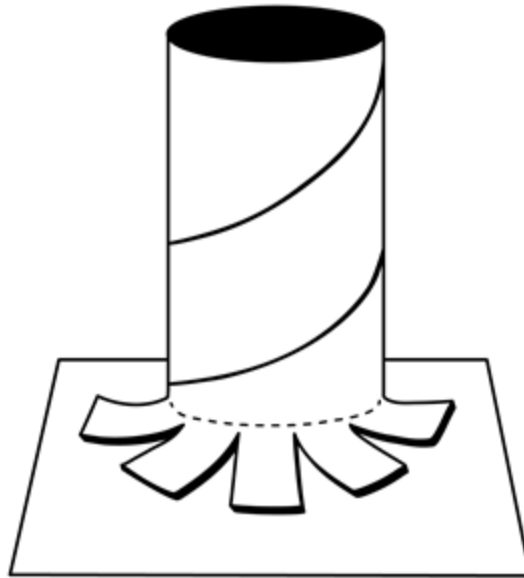


c

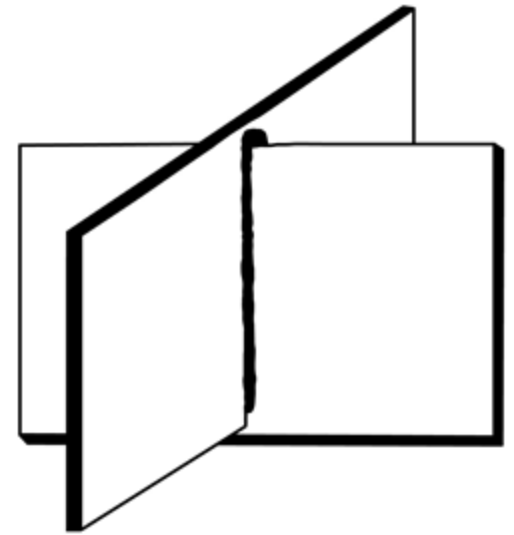
Cardboard can also be cut to create more stable structures. Other ways to secure cardboard can be through...



Card tabs can be cut and secured.



Tubes can be cut to create tabs which can be secured.

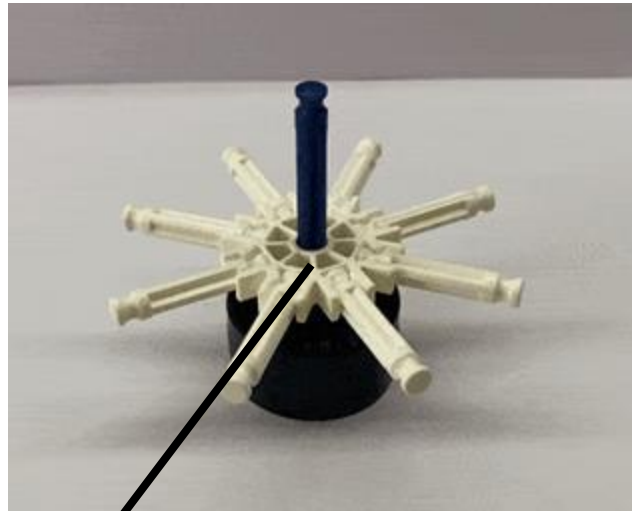


Slots can be made in card to create shapes, wider bases and stability.

If you want something to turn or spin, a split pin can be used as a joining technique. The split pin will act as the pivot point.



pivot point on a roundabout



pivot point on a **mock-up** of a roundabout



split pins

To create a structure we will use different joining techniques to join parts together.

double-sided tape



glue stick



masking tape



PVA glue



staples



sticky tape



We will also use scissors.

Scissors are a tool.

- hold scissors carefully
- sit down when cutting
- only cut paper, card and materials for your project with scissors



Your final **mock-up** of your playground might include

- a swing / swings
- slide / slides
- climbing frame, netting, ropes
- roundabout / carousel
- wobbling animals or shapes
- fencing to secure it
- bin and benches

Remember to look back at your sketch models and **design specification**. Think back to strengthening and **reinforcing** your work.

Make your **mock-up** playground.

Remember:

- Make sure your playground is freestanding, strong and sturdy - think about anchors, wider bases and bracing.
- Think about the joining techniques that you use? If you want to decorate and hide the joining technique, what joining technique will you choose?

The children in Oak class then created their **mock-up** models.



Lucas

I created my **mock-up** model. For the main structure, I used a cereal box. The cereal box is a shell structure. I added a wider base and used half a toilet roll tube for the slide.

I used paper straws **reinforced** with pipe cleaners for the swing frame structure. I added anchors to the base to hold it in place.



Sofia

A **mock-up** uses card techniques learnt so far.

A **mock-up** is a model that is useful for trying out ideas.

Different joining techniques can be used such as masking tape and glue.

Adding bracing, anchors and wider bases to structures adds support to freestanding structures.

Straws can be **reinforced** with pipe cleaners to add strength.