

What shapes can we see? (















What shapes can we see? Triangles

Answers

Why would using this shape make it a strong structure?

The triangle is the strongest shape when building due to it having a strong base and rigid sides which allows them to hold alot of weight.









Today we will plan how to build a strong structure.

Tower

Design specification

Your tower must:

- only be made from 12 straws and masking tape
- be 20cm or taller
- be able to hold a weight (a pair of scissors)

You will only have 25 minutes to complete the task!

Before you start to build you will need a plan!

Before we start building what do we need to do?

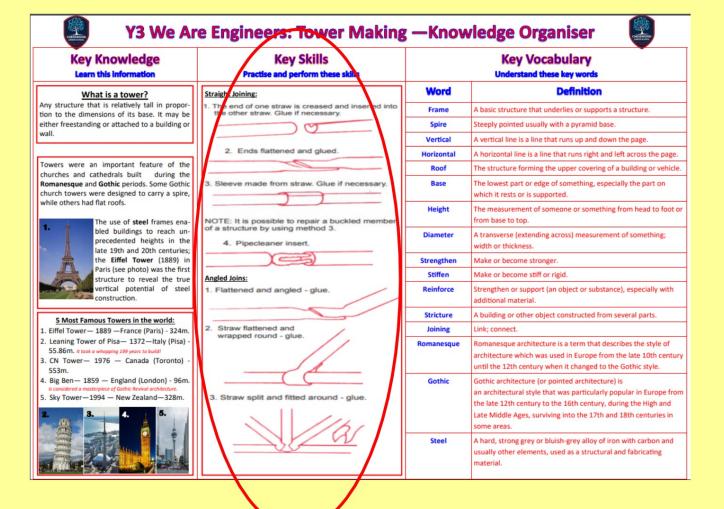
Discuss our design ideas first.

Think about:
How many different ways can you
join the straws?

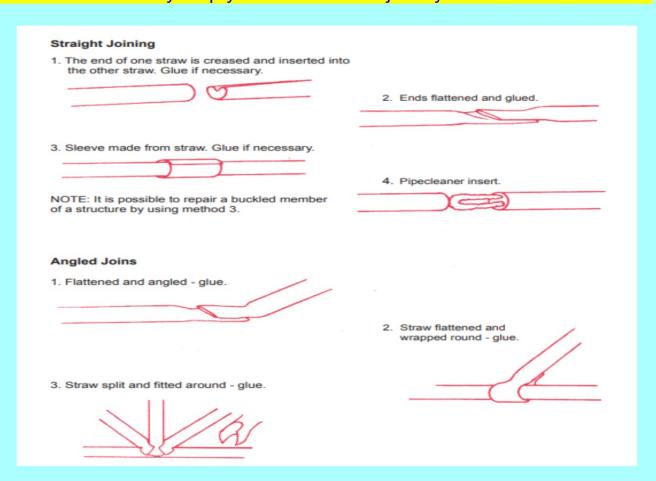
Which might be the strongest join?

Make notes and sketches to show how you plan to build your tower.

Use a ruler and a pencil to draw your sketches!



This information may help you decide which joins you would like to use.



Maybe you could try making some before you choose!



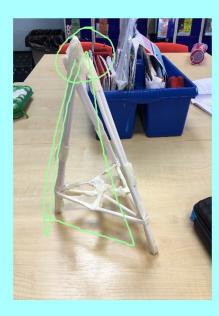


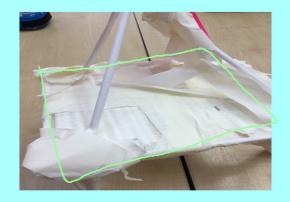




Maybe these will help you to decide?





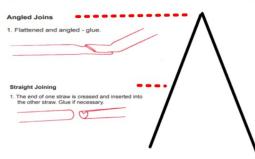


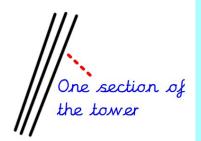
Once you have an idea complete your plan

Date:

WALT: plan and build a strong structure.

This is what our tower will look like:





Here is an
example for
you to refer to
when
completing your
own plan.

This is how it will be made:

I will build a structure in the shape of a

triangle because it will be very strong at the base and in each section.

I will use an angled join at the top and bend it over to create the point, I believe this will hold in place better than the other choices.

Straight joins will link two straws together to create height.

We will build this during our next lesson.

