

STATIC STATIC ELECTRICITY



Jumping Leaves

You'll need:

Balloon Hair or wool jumper Tissue paper - cut into leaf shapes



Instructions

Rub the balloon on your hair or jumper.

Hold the balloon over the tissue paper leaves and watch them jump up to the balloon.

Why does this work?

Rubbing the balloon on a wool jumper or hair charges it with static electricity. This attracts the tissue paper making it jump up to the balloon where it will stay until the charge wears off.

Challenge

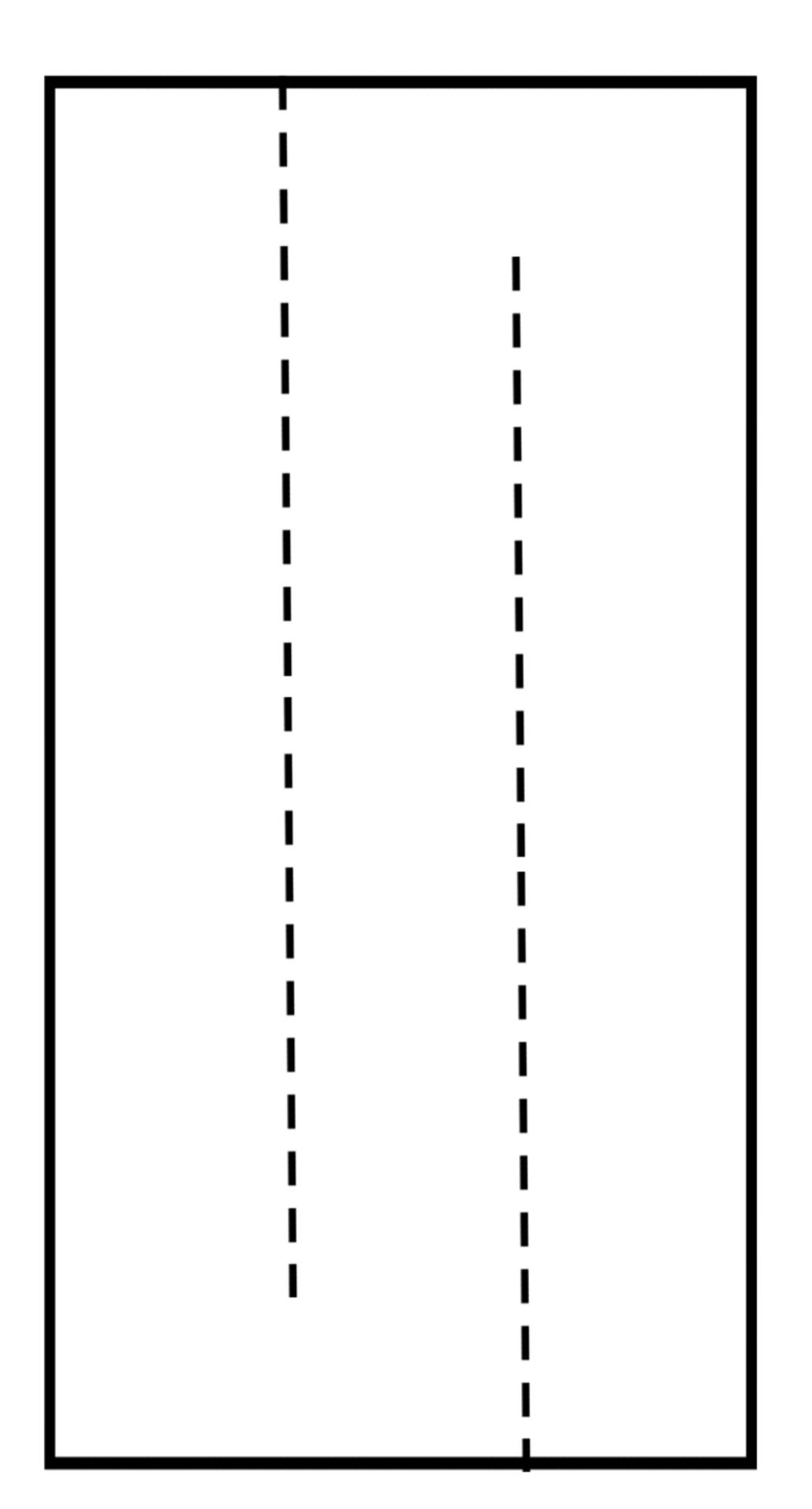
Try again using thicker paper, does the tissue paper still stick to the balloon?

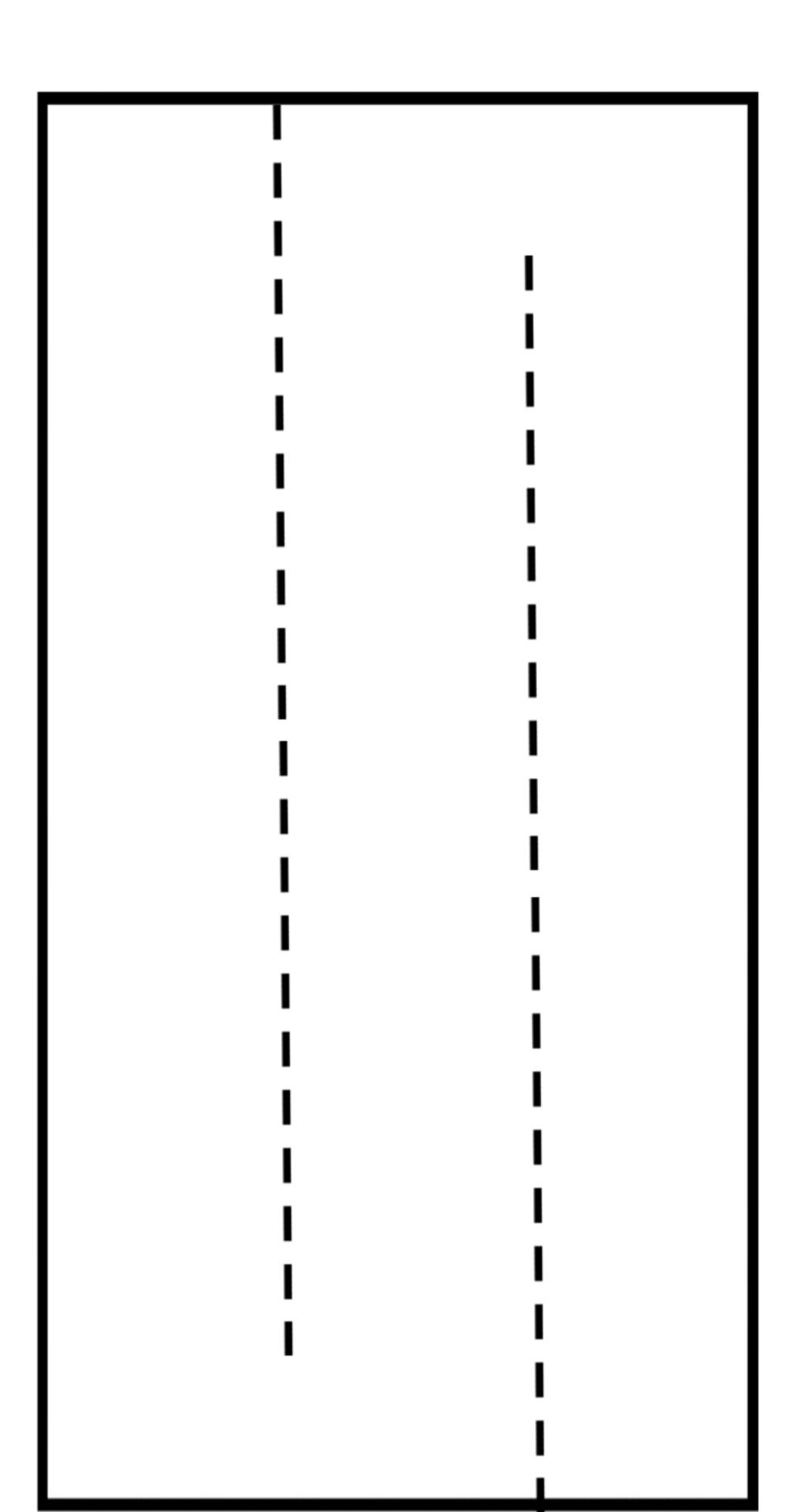
If you rub the balloon on your hair for longer does the tissue paper stick for longer?

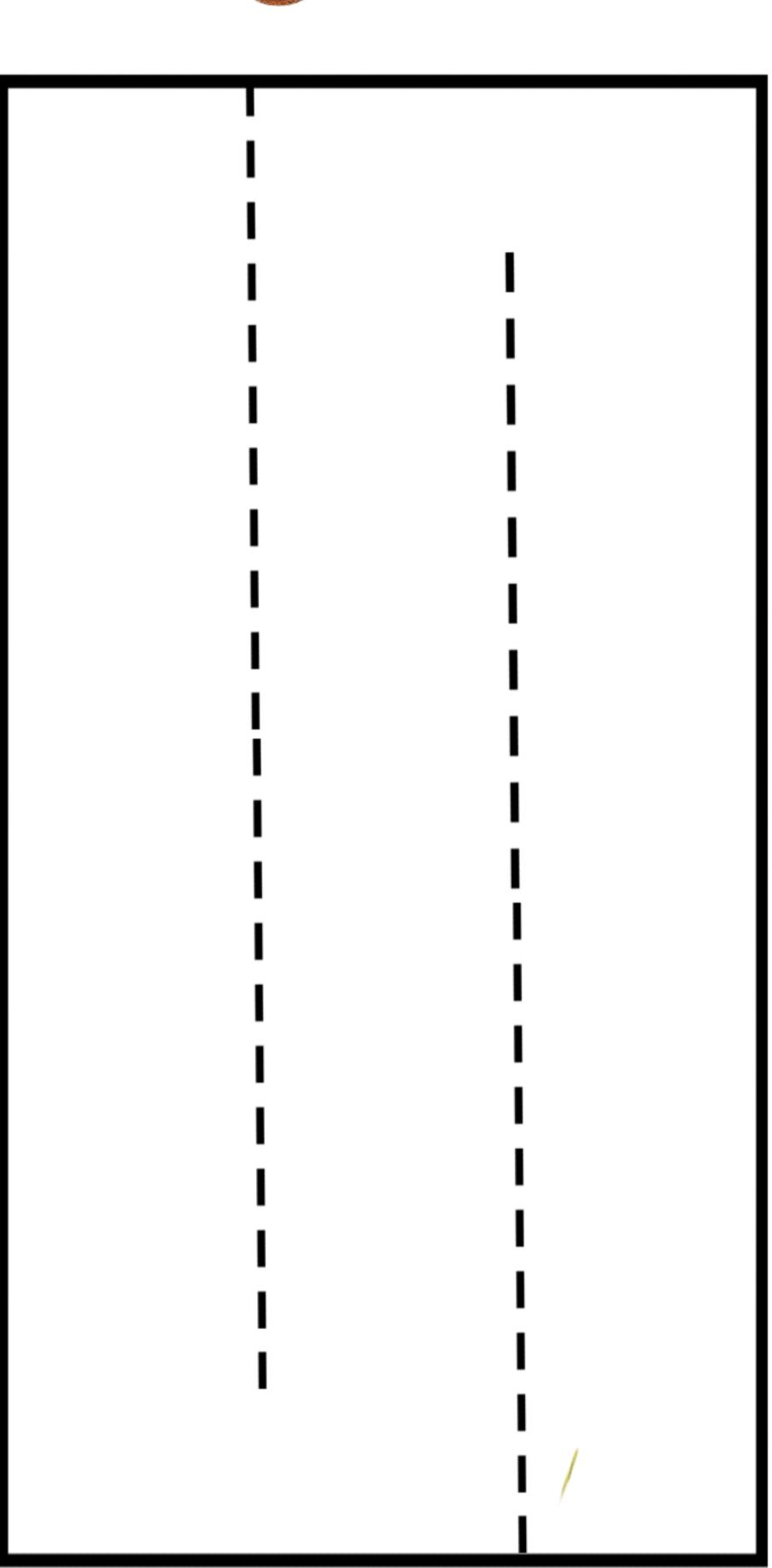
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HELICOPTER SEEDS









Supplies needed:

Scissors
Paperclip
Paper

Instructions

Carefully cut out the three rectangle shapes above. Cut down the scissor lines and fasten the two ends together with a paperclip.



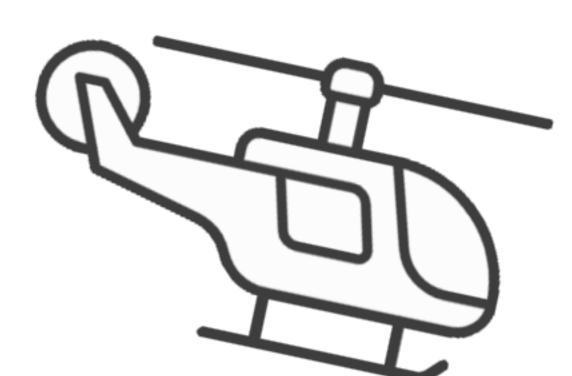
More fun

Experiment with bigger and smaller spinners and different types of paper.

Investigate how far each helicopter moves from the point where it is dropped.

SEED HELICOPTERS

I predict that



Materials

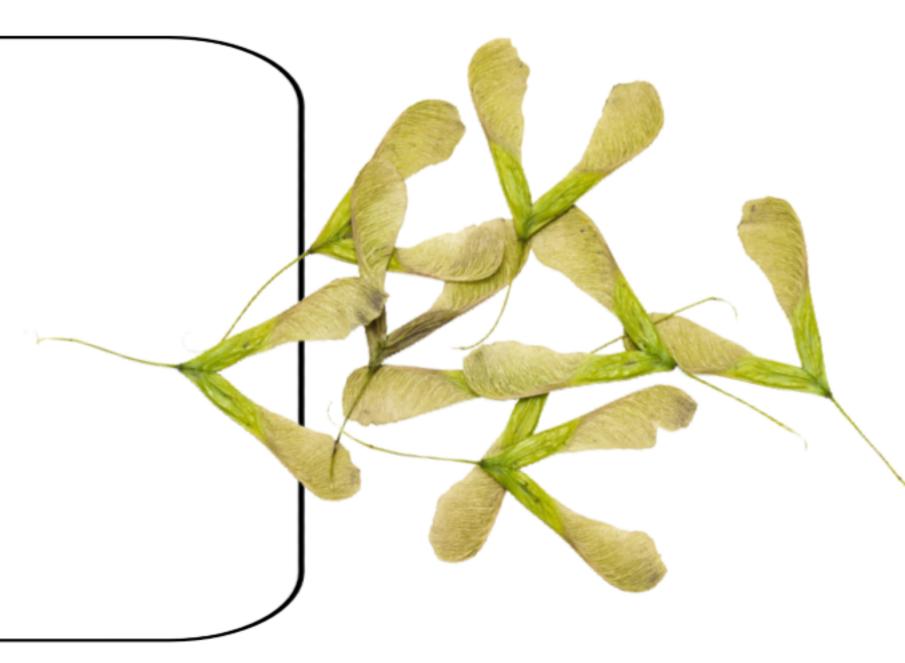
Instructions

Results

My test was fair because



Next time I will.....

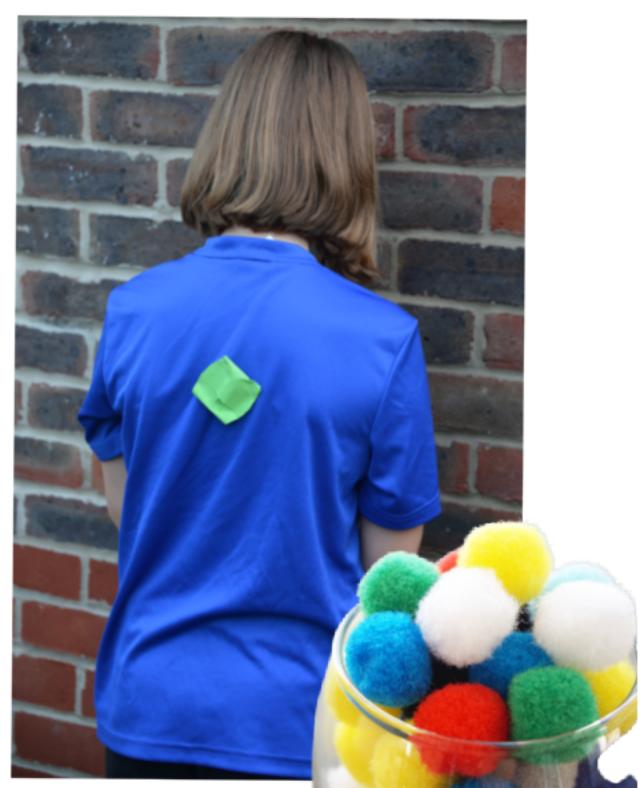


SEEDS -

You'll need

Velcro
Double sided tape
Paper
Pom poms or a small seed
Small containers
Glue
Sellotape
Clothing to test





Instructions

Gather together a collection of materials you think you can use to make a sticky seed pod.

One idea is to wrap a pom pom or small seed in paper and then attach a sticky material (perhaps double sided tape) to the outside.

How far can you walk before it falls off?

Test different types of clothing to investigate which your sticky seed attaches to for the longest.

ONLY use clothing you don't mind getting a bit sticky

Extension Ideas

Seed dispersal is the scattering of seeds. If seeds just dropped next to the parent plant they would be competing for nutrients and light. Some plants use animals to spread thier seeds for them. This type of seed usually has sticky hooks so it can attach to an animal's fur.



STICKY SEED POD

CHALLENGE - to make a sticky pod for a seed that will attach to at least one material for at least 30 seconds before falling off.

			The state of the s
I will use:			
sticky tape		My design	
velcro			
paper			
tube			
box			
My sed po	d sticks to:		
Cotton	Wool		
Paper	Grass		
Foil			
	I can improve n	ny design by:	
CIENCE PARKS			

EXPLODING SEDS

You'll need

Pom-poms
Paper cup
Balloon
Tapelelastic band
Scissors



Instructions

Carefully cut the bottom off the paper cup.

Tie the end of the balloon and cut the opposite end off.

Attach the tied section of balloon to the bottom of the cup.

Use tape or an elastic band to secure in place.

Fill the cup with pom-poms, hold the cup in the air, pull back the balloon end and let go!

Try holding the cup at different angles to investigate how far you can make the pom-pom seeds spread.

Extension Ideas

Seed dispersal is the scattering of seeds. If seeds just dropped next to the parent plant they would be competing for nutrients and light, so it's better if seeds are spread out allowing them to grow with less competition from other plants. Exploding seed pods are just one seed dispersal mechanism. Seeds can also be spread by the wind, water and animals.

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JUNPING LEAVES

You'll need
Balloon
Tissue paper, cut into leaf
shapes
Woolly jumper or hair



They should jump up and stick to the balloon!

Experiment with different size leaves and types of paper

HOW TALL?

Choose a tree.

Bend over and check if you can see the top of the tree through your legs.

If you can't see the top, move away until you can.

When you can first see the top of the tree is the point at which you are as far away from the tree as it is tall!

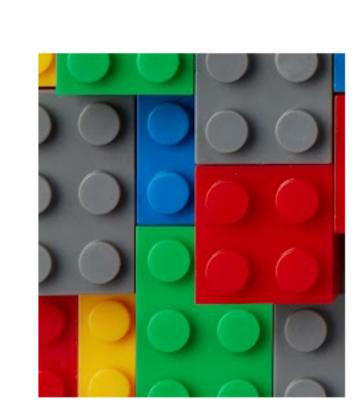




BUILD AN AUTUMN TREE

Use a collection of toy bricks or wooden blocks to build a tree full of colourful leaves.

Change the tree so it looks like it would in winter.





HOW MANY COLOURS?

Create an empty frame from cardboard.

Take the frame outside and look around. How many different autumn colours can you fit into your frame?





Stick leaves onto the hedgehog to give him spikes

