

Design Technology

The six principles:

- **User** Children should design and make products that:
 - are for an intended user
 - perform one or more defined tasks
 - function effectively to fulfil the users' needs
- **Purpose**
- **Functionality**
- **Design Decisions** When designing and making children should:
 - make their own decisions
 - draw on learning from other subjects
 - Have scope to be original with their thinking
 - create products that are meaningful to themselves and others
- **Innovation**
- **Authenticity**

D.T. Units in Each Year

year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1		mechanisms pop ups and simple card levers	food preparing & combining		structures stability & strength	
2			mechanisms wheels & axles	food "Eatwell Plate": a healthy diet where food comes from	textiles using a template joining, choice of stitches & materials	
3		food simple dish "Eatwell Plate"		mechanical systems levers & linkages		structures shell/ frame, structure & strengthening
4	ICT and electrical systems control & electrical components			textiles seams, stiffening & strengthening, materials & fastenings		food simple savoury food & cooking techniques
5		food other cultures, variety of cooking techniques		mechanical systems cams, pulleys & gears	3d textiles gussets, patterns, joining with seam allowance, combining fabrics	
6			food chefs, food heroes, designing a healthy menu		combining learning from across D&T skill bases: structures , mechanical systems, electrical systems , ICT programming & control	



**FOOD
TECHNOLOGY**

KS1

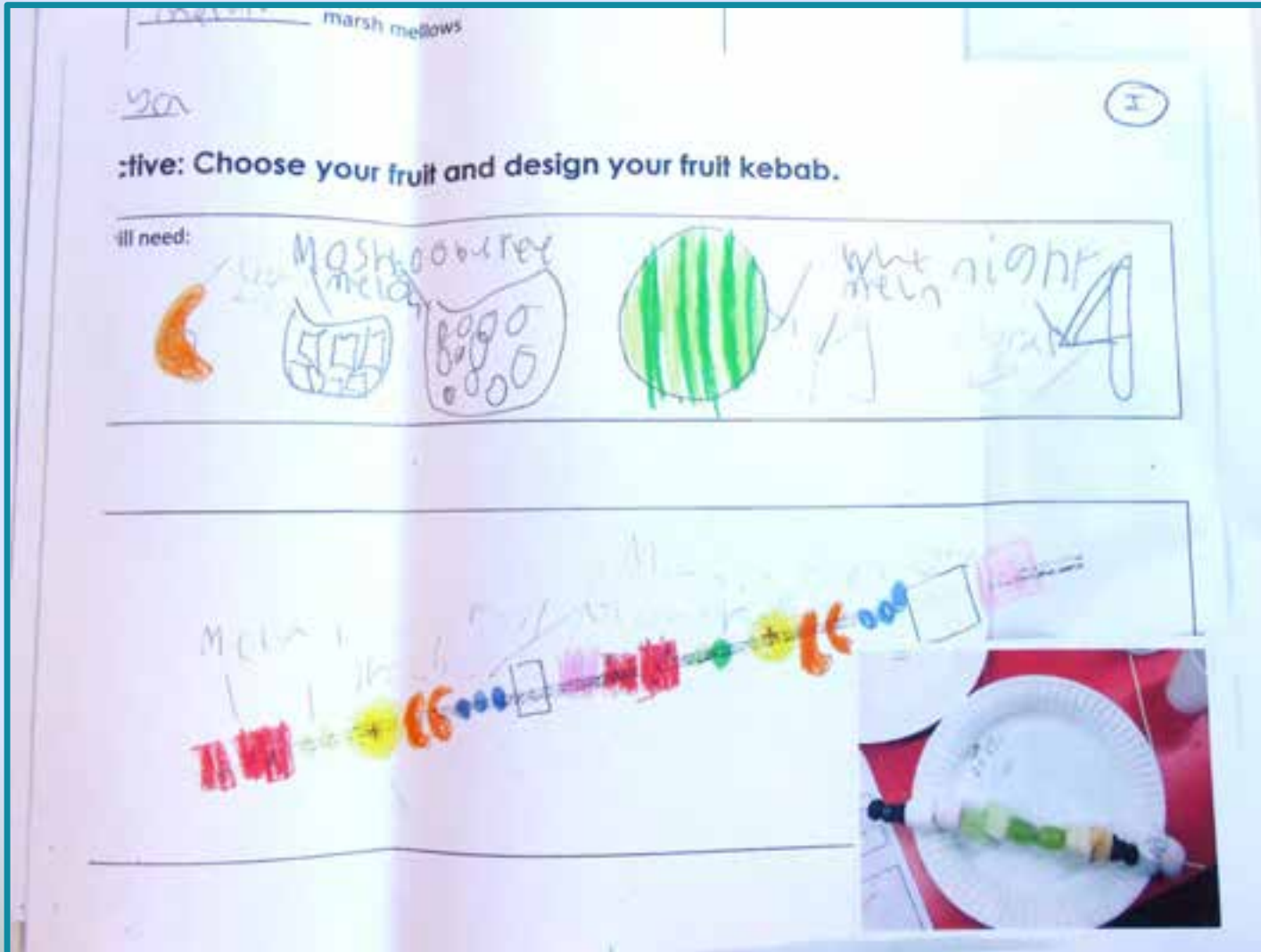
Design and make a healthy fruit kebab that your friend will enjoy eating at playtime.



"I don't like kiwi but I had to put it on because my partner likes it. She thought it was yummy!"

"You have to wash your hands or you can get germs and you have to make sure you don't stab yourself

on the stick thing."





KS1
Design and
make a salad
to encourage
healthy
eating.



Design and prepare a balanced menu that will appeal to the children at Manor Road.



UKS2



Tuesday 25th November 2014
 To be able to create an Italian food mood board.



Starter Options

The starter options that we thought of were:

Garlic Mushrooms
 Garlic Bread
 Doughballs

What did we choose? Why? Explain by thinking about taste, who our taste testers are going to be, ingredients and bake time.

We chose garlic bread because...
 most people ~~to have~~ should have tried it before, easy to make, we can freeze it.

Dessert Options

The dessert options that we thought of were:

Sorbet
 Ice Cream
 Profiteroles

What did we choose? Why? Explain by thinking about taste, who our taste testers are going to be, ingredients and bake time.

We chose Sorbet because...
 • not everyone ~~to~~ should have had it before but they will probably like it
 • they can choose the flavours
 • easy to make (only need 3 ingredients)

What did we choose? Why? Explain by thinking about taste, who our taste testers are going to be, ingredients and bake time.

We chose pizza because...
 • most people like it
 • easy to make
 • They can choose the toppings
 • we can freeze it

Types of pizza toppings... (Taste Test)

Pizza Topping	Comment
Pepperoni	nice, Pepperoni but the bread is a bit cold.
Cheese + Tomato	Good, but again cold bread
Ham + Pineapple	We only had ham but it was good

What ingredients I need for the pizza... Ham, Pineapple, Cheese, Pasaeta

Ham
Pineapple (1/2 rings)
Pizza base
Pasaeta
Cheese

The method...

Firstly, get your pizza base and put it on a chopping board.
Secondly, spread your paseta onto the pizza base.
Next, sprinkle your cheese onto the pizza base.
Then, cut your ham into strips and put them on the pizza base.
After that, cut your pineapple into small pieces (but not too small).
Finally put your pizza in the oven for at around about 180°C and for 12 mins.

Types of garlic bread... (Taste Test)

Type of bread ⇨	Shop	1 clove	2 cloves	3 cloves
Appearance	9/10	10/10	10/10	10/10
Taste	5/10	3.5/10	5/10	9/10
Smell	10/10			
Texture	9/10			
Did you like it? ☺	☺			

Health and Safety...

- Wash our hands
- Sensible - especially with knives
- Knives, (need to see them) → be careful when chopping
- be careful with oven
- NO Messing with knives (no pointing knives at over people)



"I'm proud of how we worked as a team."



"I am proud that we made food on our own and that we didn't need help from a teacher."



"It was good to learn how to cook lots of food and do a lot of teamwork. We got to try Asda food too!"



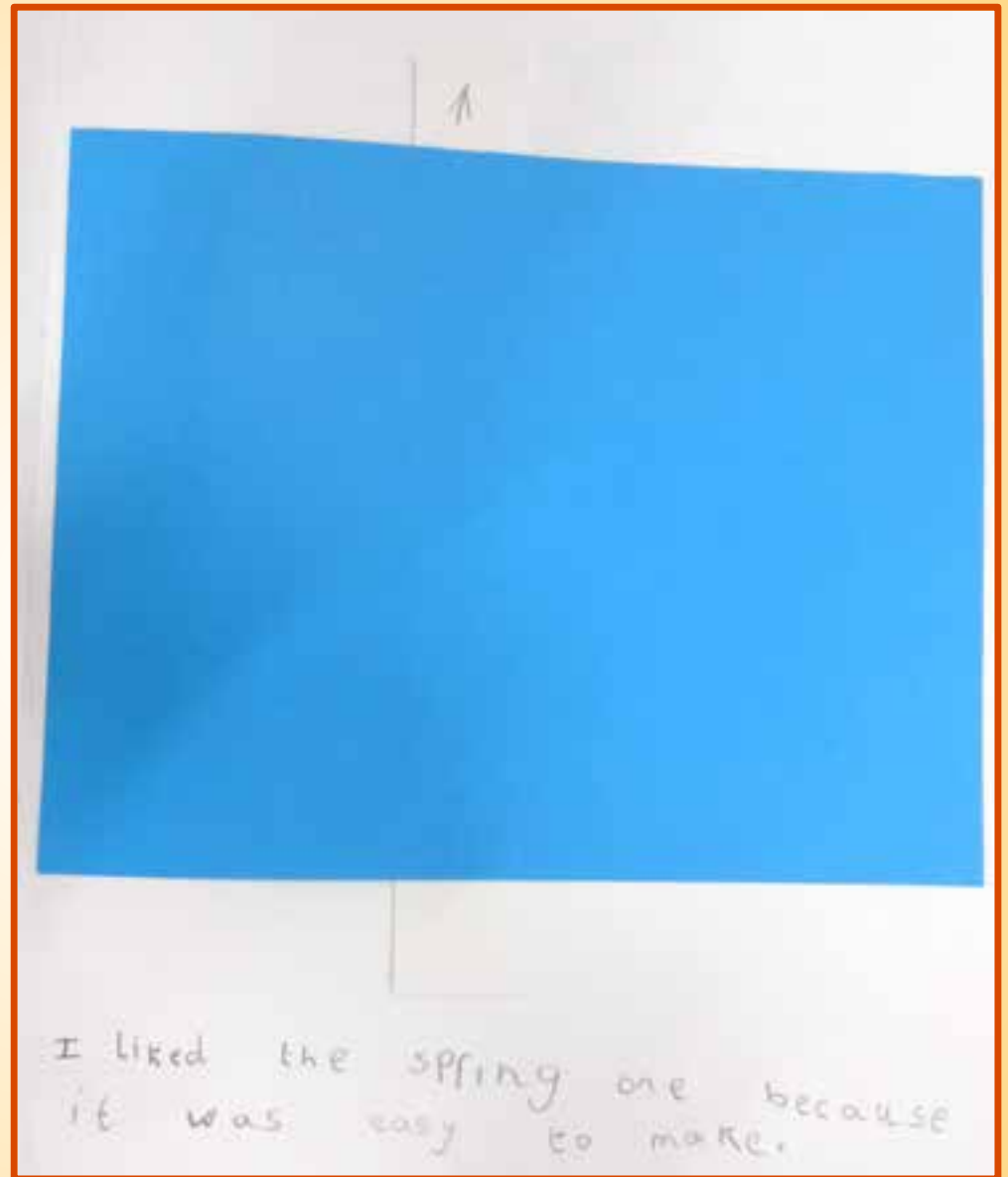
"Our food was better. We could improve the taste."



MECHANISMS

Design and make
a pop-up card to
give to someone
at Christmas.

KS1



"I liked the spring because it was hard at the start but it's easy now."



"You have to do it carefully to get the folds right so it works."

"It has to be special. You want the person to like it and they will be really disappointed if it doesn't work."



KS1

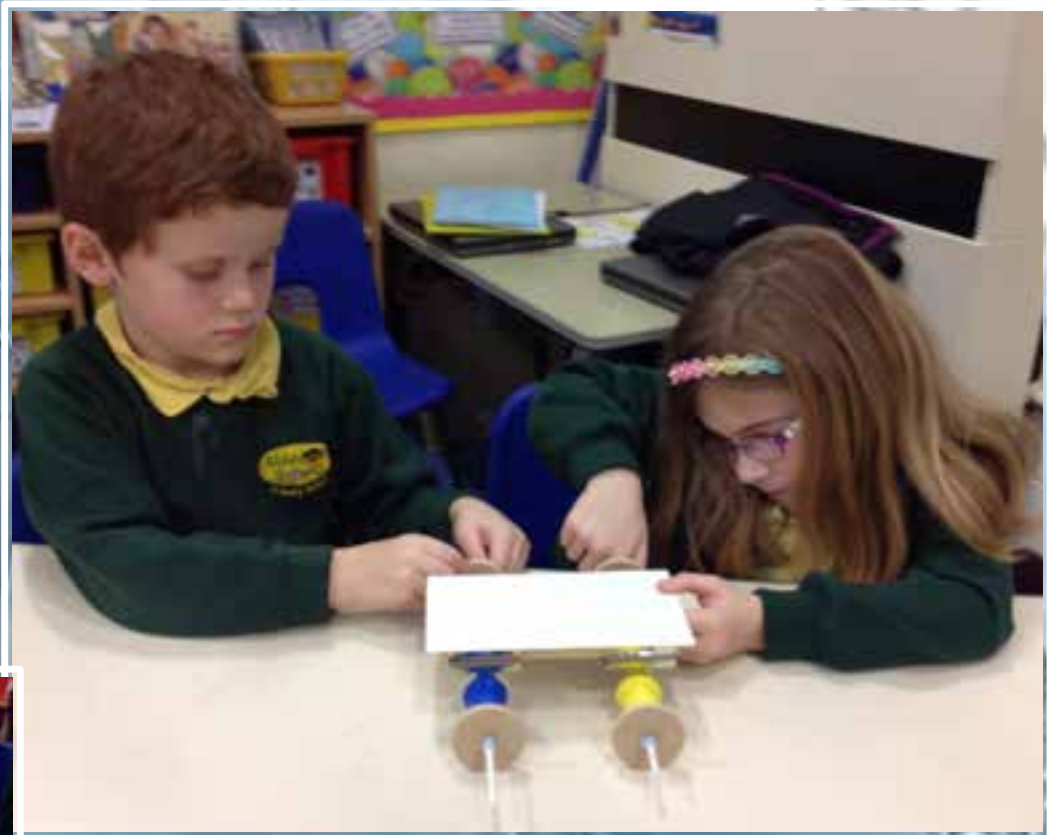
Design & make
a model of a
vehicle for an
astronaut to
drive on the
moon.

“ ”
.

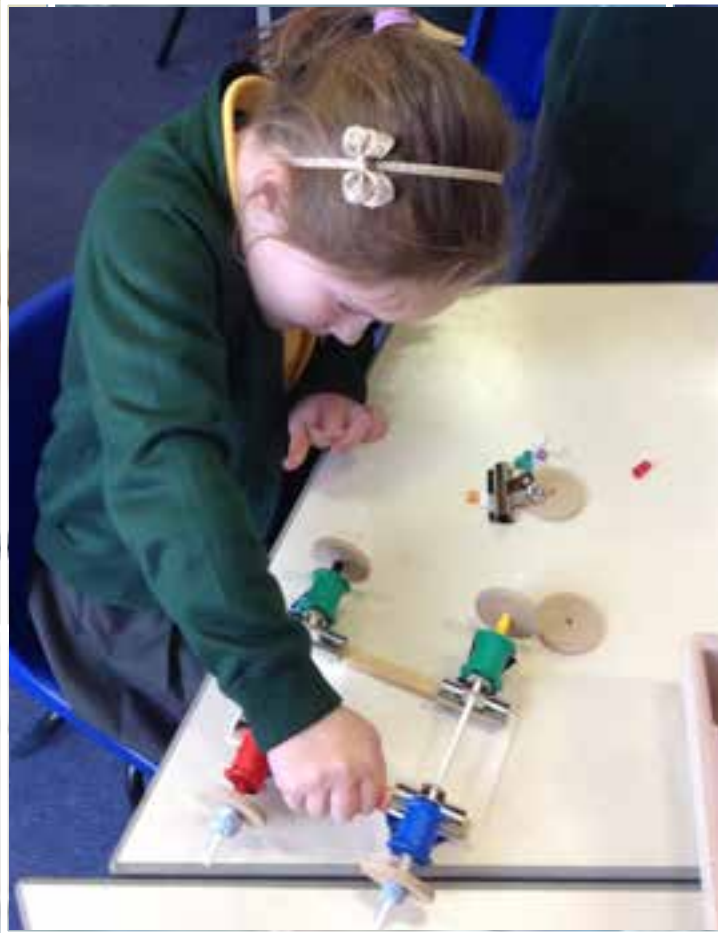




"We had to measure the carefully before we cut so the wood would fit the base."



"We tried different ways of attaching wheels to see which worked best."



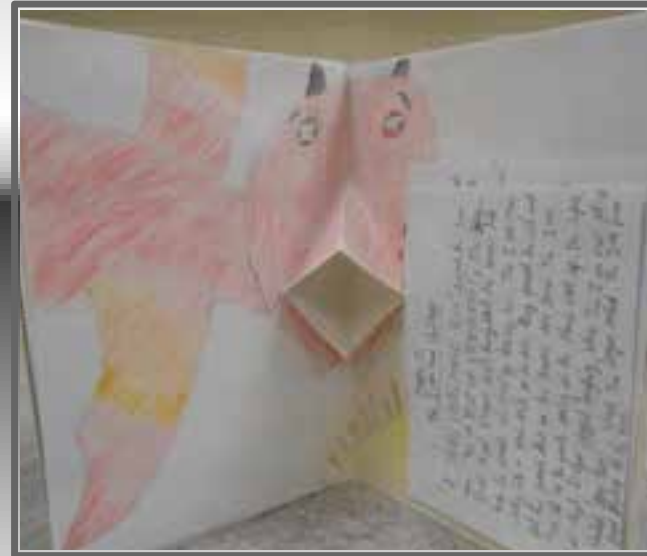
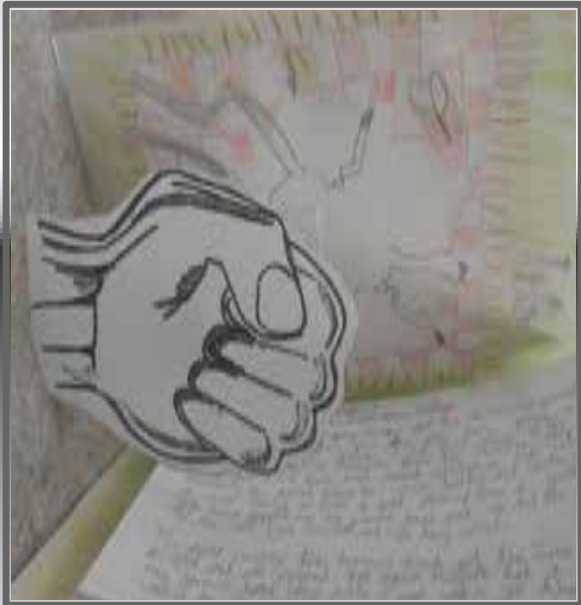
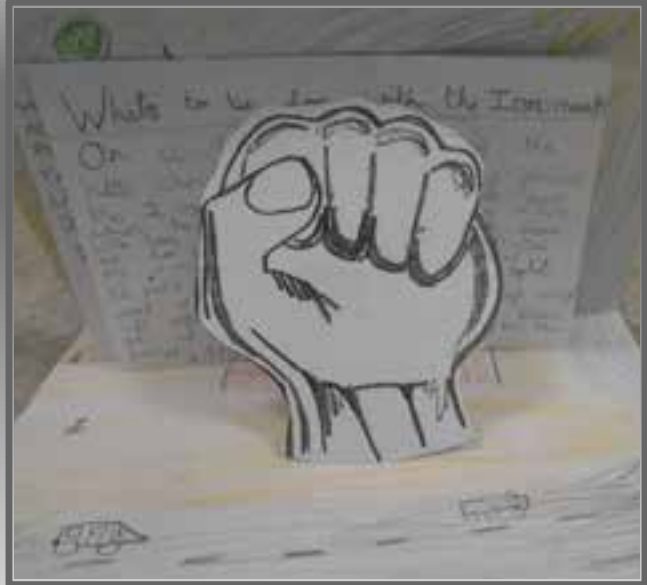


"We tested the wheels to make sure they worked over bumpy ground like the moon."

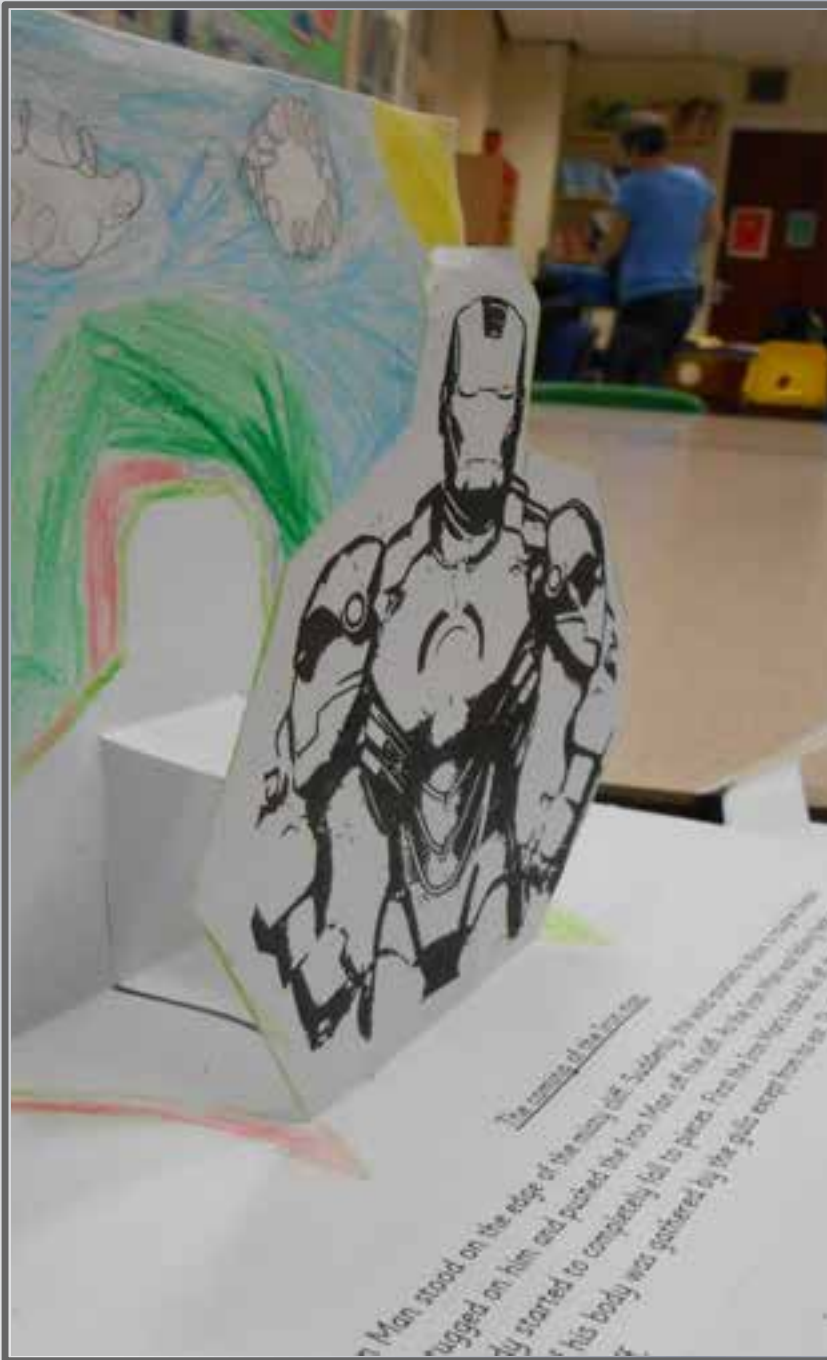


LKS2

Make moving pictures that help illustrate the action of a story for a young child to enjoy.

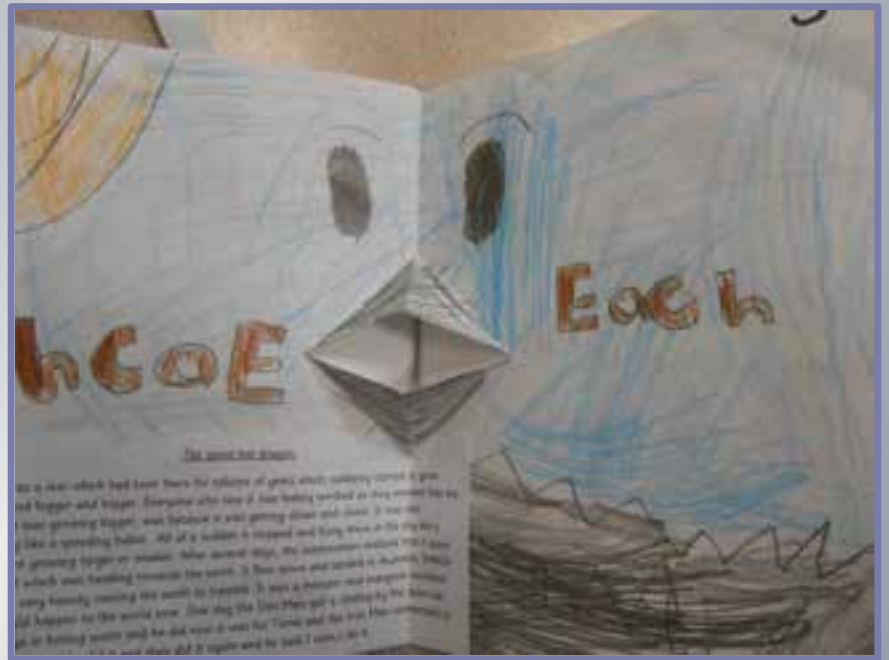


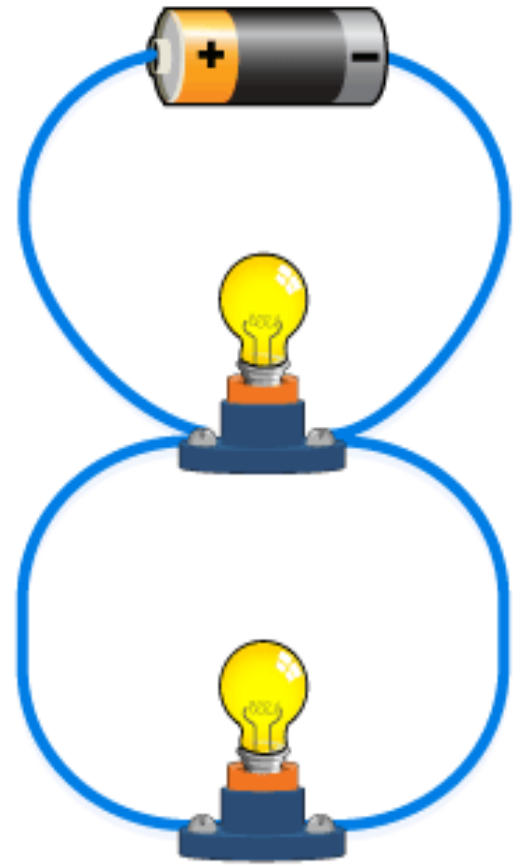
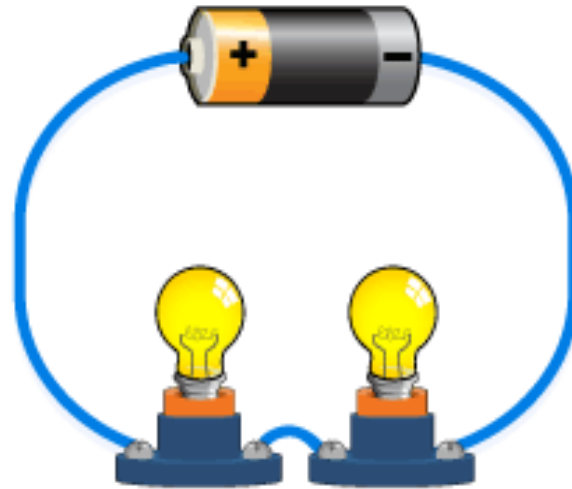
"You have to take your time, plan carefully and be organised."



“You feel proud
when you can make
something work and
you can see that
you’ve actually done
it!”







ELECTRICAL SYSTEMS

○ up finishing table lamp for
Mrs H can use



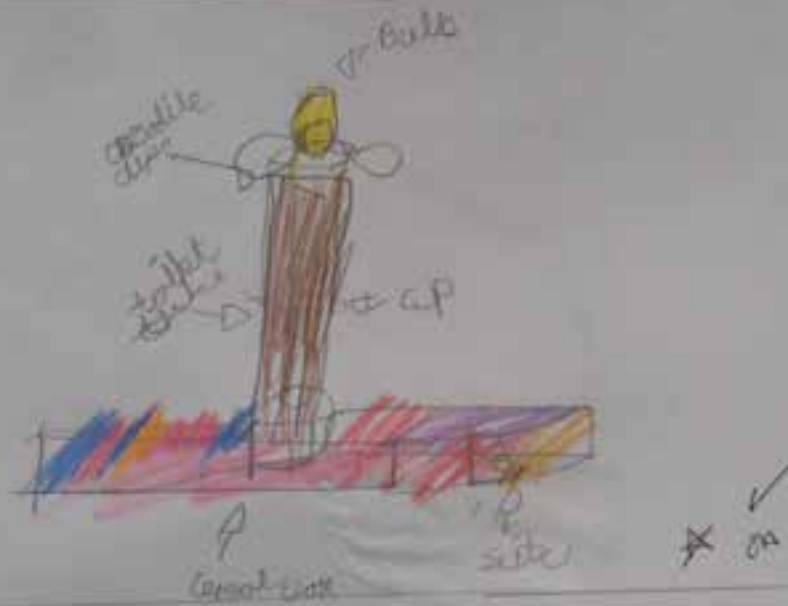
Now that the evenings are growing darker your teacher is finding it difficult to see to mark your work.

Can you help by making a table lamp?



LKS2

2.12.14
Dada finished bubble lamp
for M B school to use.



"I like D.T. because you get to make interesting things."



Some to put
checking work
Hang



“I had no idea that I could really make a real lamp and I really can!”





The background of the image is a dense, chaotic field of small, multi-colored fabric scraps or textile waste. The colors are vibrant and varied, including reds, yellows, blues, greens, and pinks, creating a textured, almost abstract pattern. The word "TEXTILES" is superimposed over the center of this field.

TEXTILES

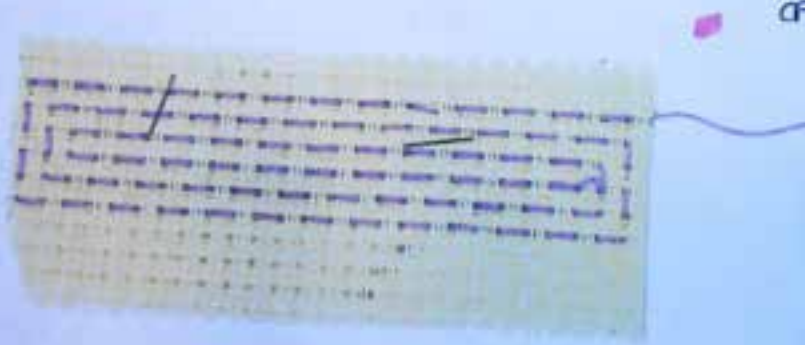
KS1



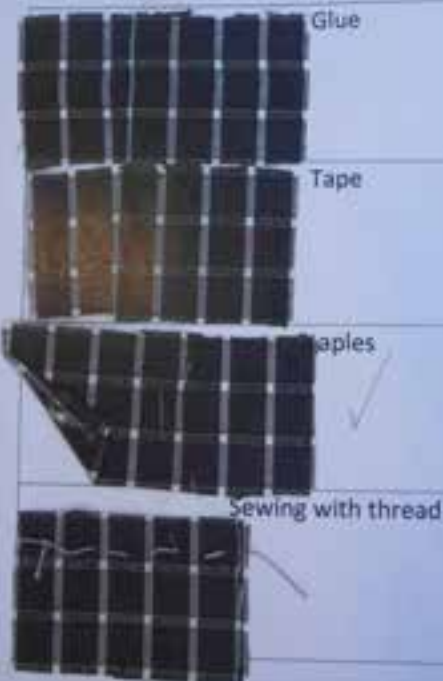
Design and make a puppet that fits on your hand to help you tell a story to a younger child.

L.O. To practise sewing, using running stitch and binca. To attach two pieces of material together using running stitch.

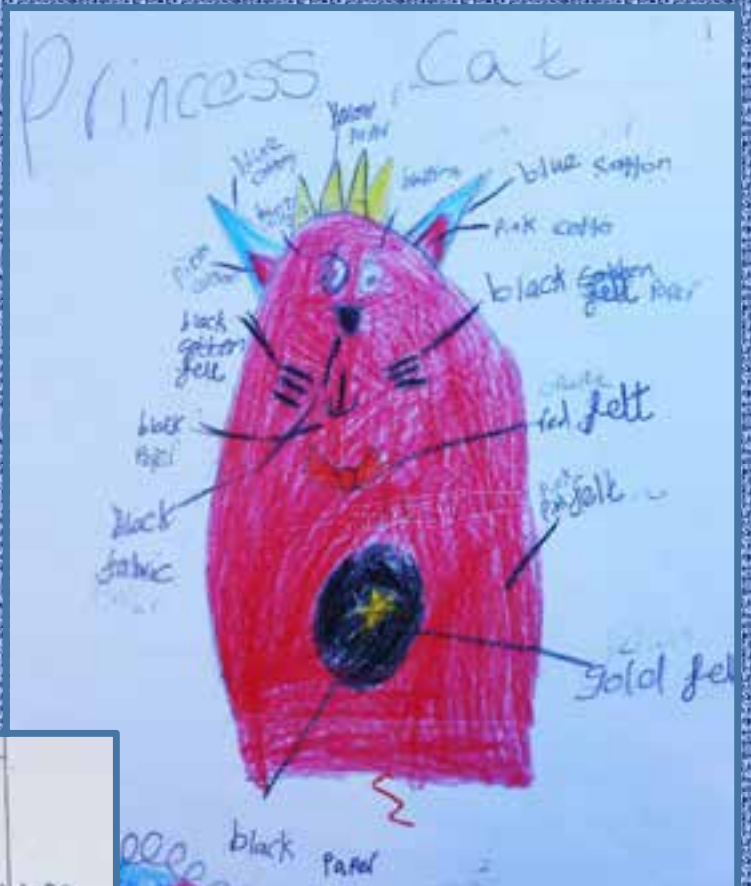
26th February 2015



L.O. To create a template and use it to cut out my material. 5.3.2015



- I put the ears on well because they were straight
- I did the nose well because it looked like a real nose
-
- The bow because it wasn't straight
- And the star because it was too small
- The mouth because it wasn't smiling





"It has to be the right size for your hand to fit in so you have to leave room for the staples or stitches."

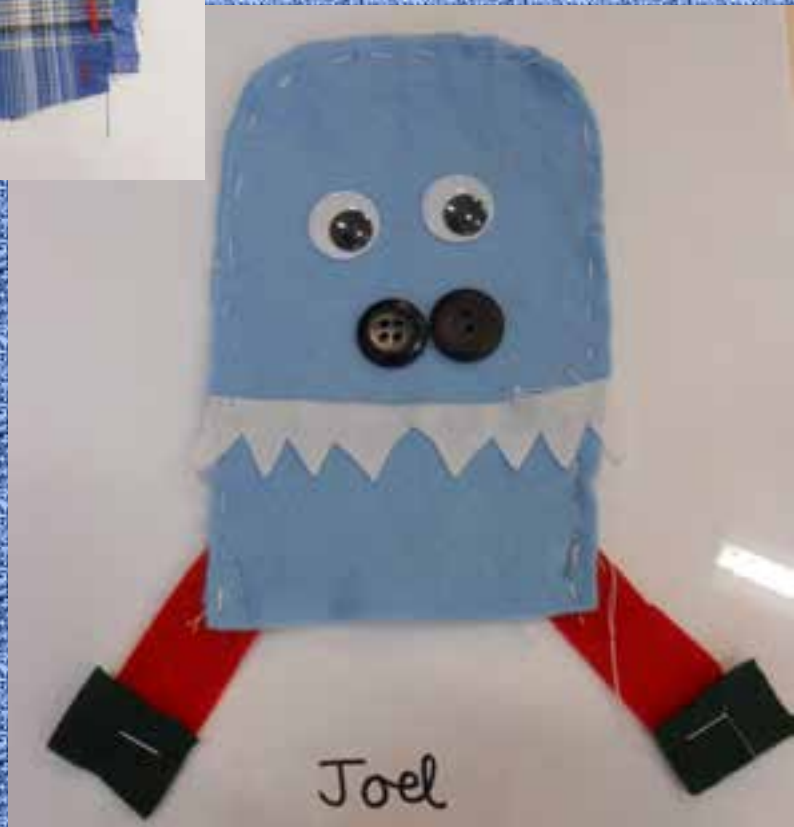
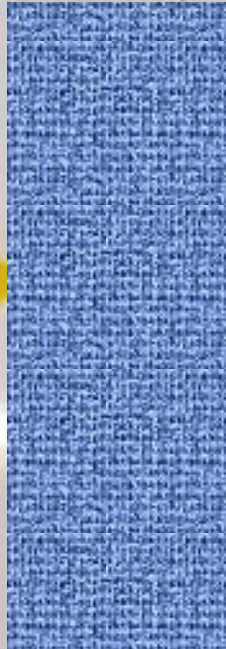
"It had to have two sides so my hand could go in."



"I kept putting my hand in to make sure it would turn out right."



"I got better at making the stitches the same size."



"I chose to sew it because the stitches stay in better and don't scratch. I think sewing is harder but I liked getting through the hard bits because then I could say 'I've done it!'"

"I can sew now. I sewed my badges on my uniform!"

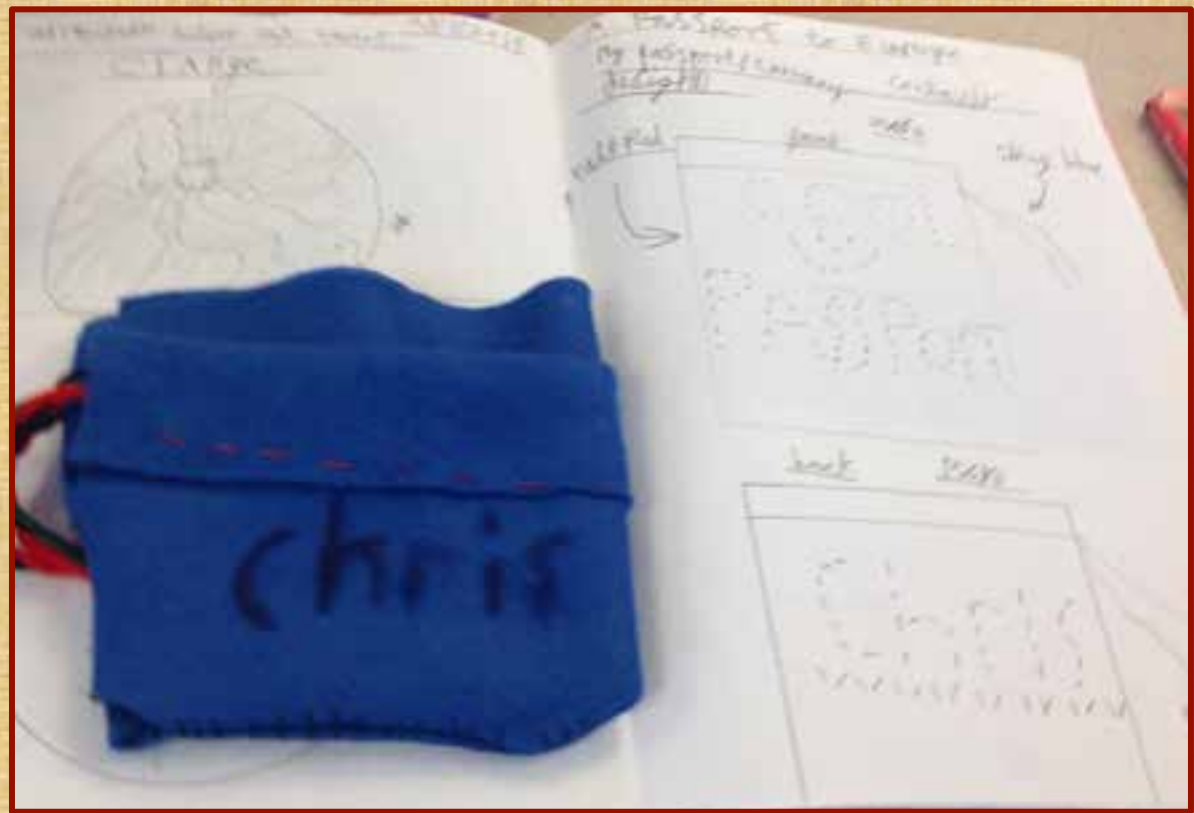
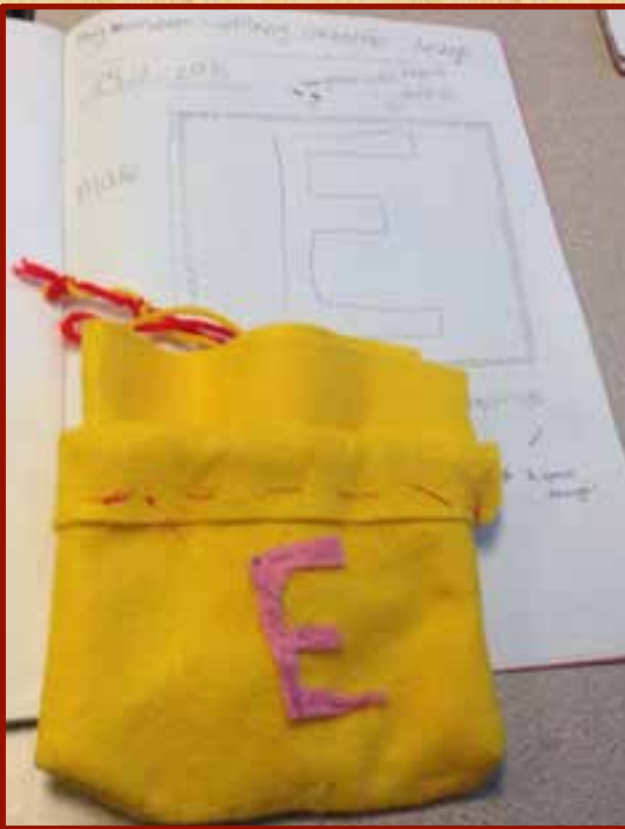


"I am proud of the quality of my puppet. I made it really well."

“You have to make sure you design things that you can make well and then evaluate them to make sure that they work so you know you’ve done it right.

If you don't the boss will fire you!”





Make a fabric container that will hold your passport and money.

LKS2

"I learned blanket stitch and cross stitch. I could do running and back stitch already."



"It takes a long time. You have to learn all the skills first."

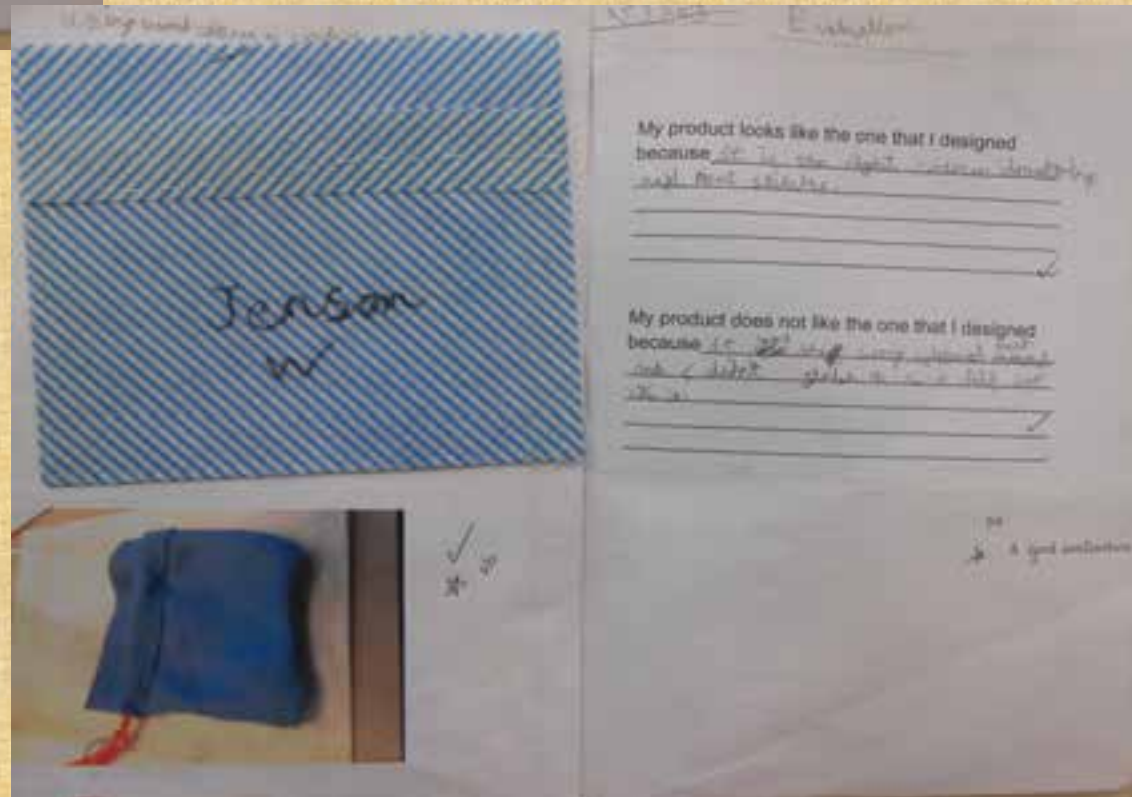
"Yeh, it's useful outside school too because you can sew your buttons on!"



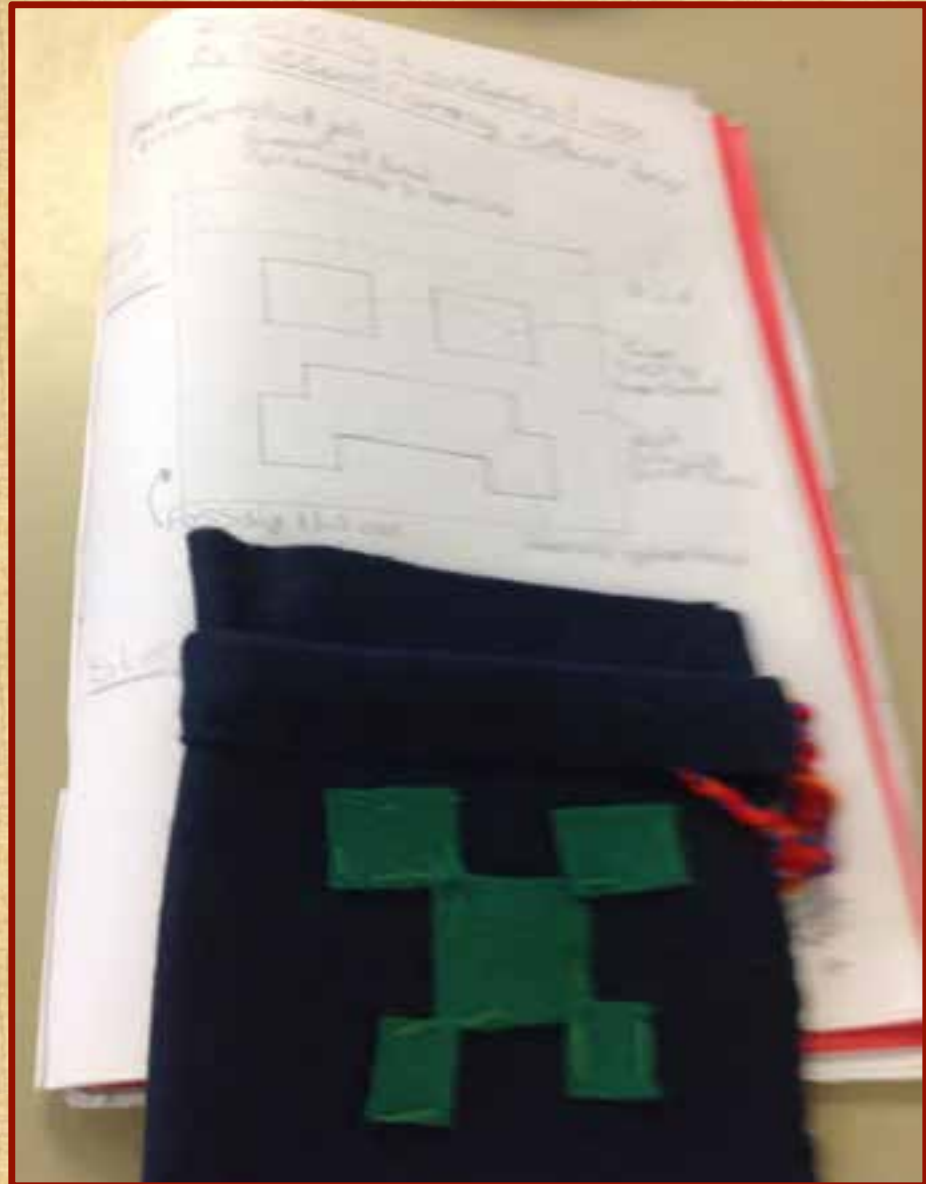


"You have to plan out what to do so it doesn't go wrong. You can try a prototype first to see what works."

"It's no good making it all fancy if it doesn't do what it should."



"You evaluate it as you go so you can improve it.
You don't always stick to your plan."



Monday 13th April 2015

To be able to design a belt appropriate for an Amazon Rainforest explorer

because we
love Erogre
and i like it.

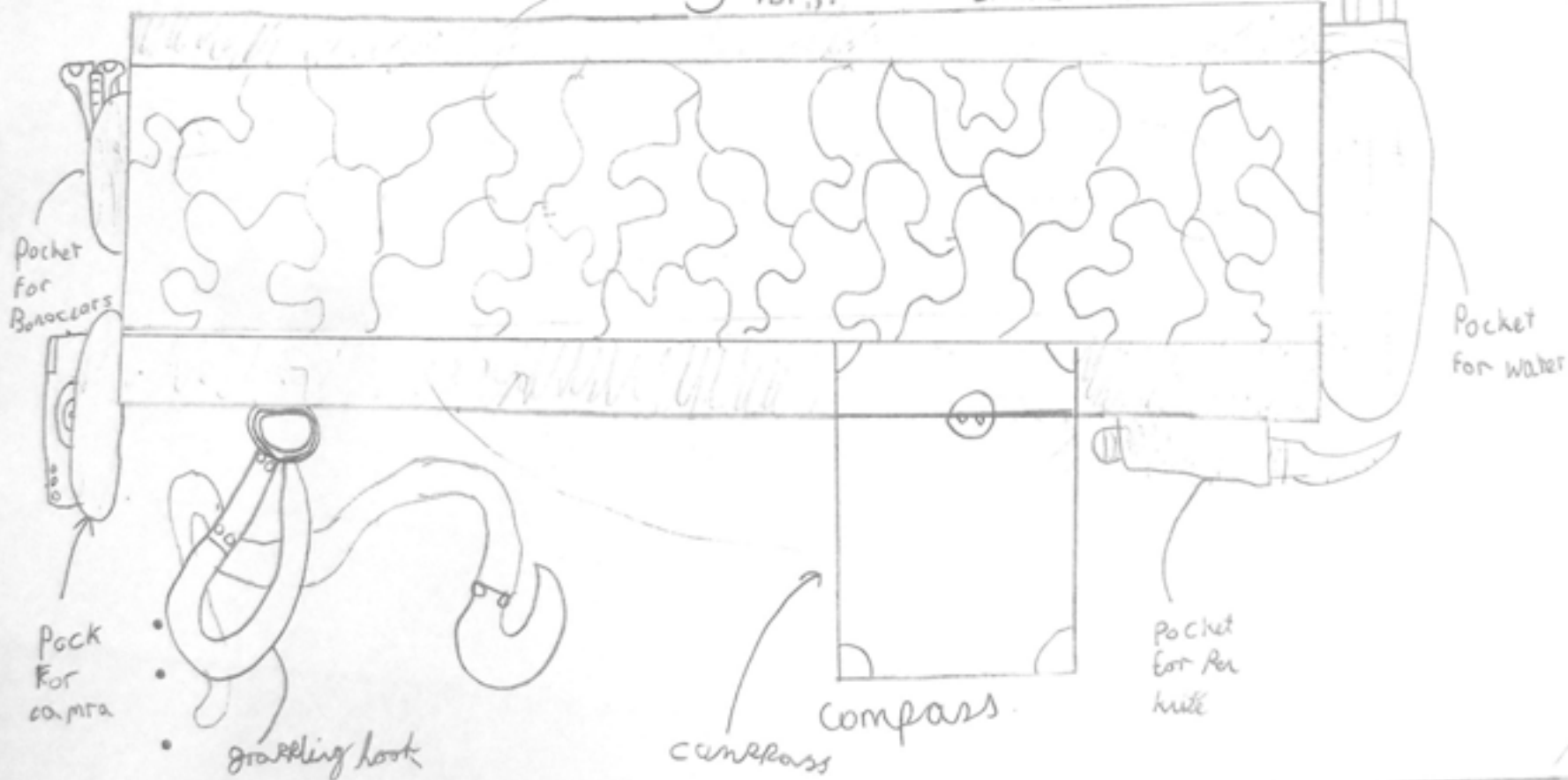
binoculars

✓
A well
thought out
design
Nathan

because
it stand
out and
all of the
equipment
for it.

Rocket metal
for ring
camera for
grapple
hook
for
binoculars.

Pocket
for water,
for
for Pen
for Pen
compass
knives

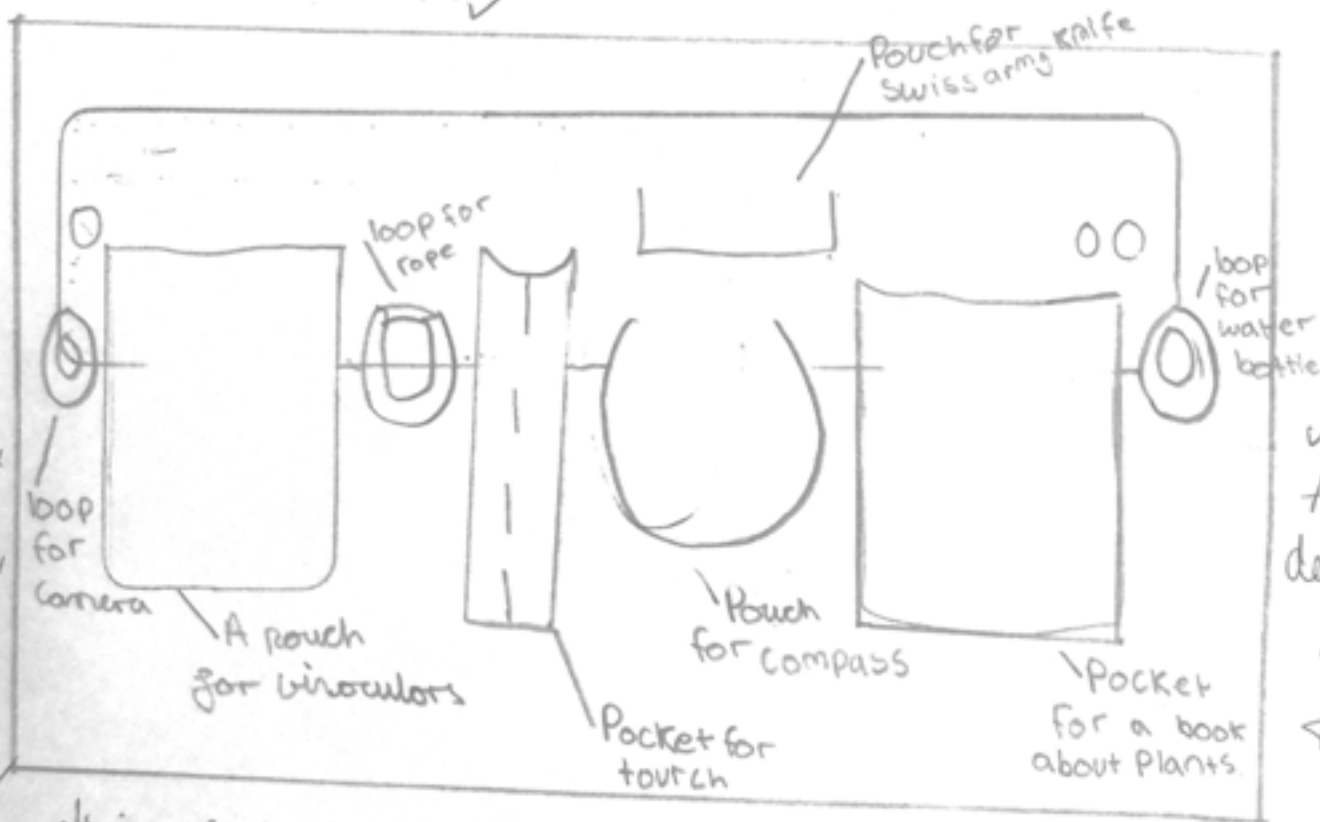


Monday 13th April 2015

To be able to design a belt appropriate for an Amazon rainforest explorer

I have chosen this design because I find it very easy to get to things and I have put on all the things on that I would need.

This design features a loop for a camera, a pouch for binoculars, loop for a rope, a pocket for a torch, a pouch for a compass, a pouch for a Swiss Army knife, a pocket for a book about plants and a loop for a water bottle.



It is perfect for an explorer as it is really easy to find all the equipment and has things on that can be really useful.

✓ OA
A great design
😊
★ ★

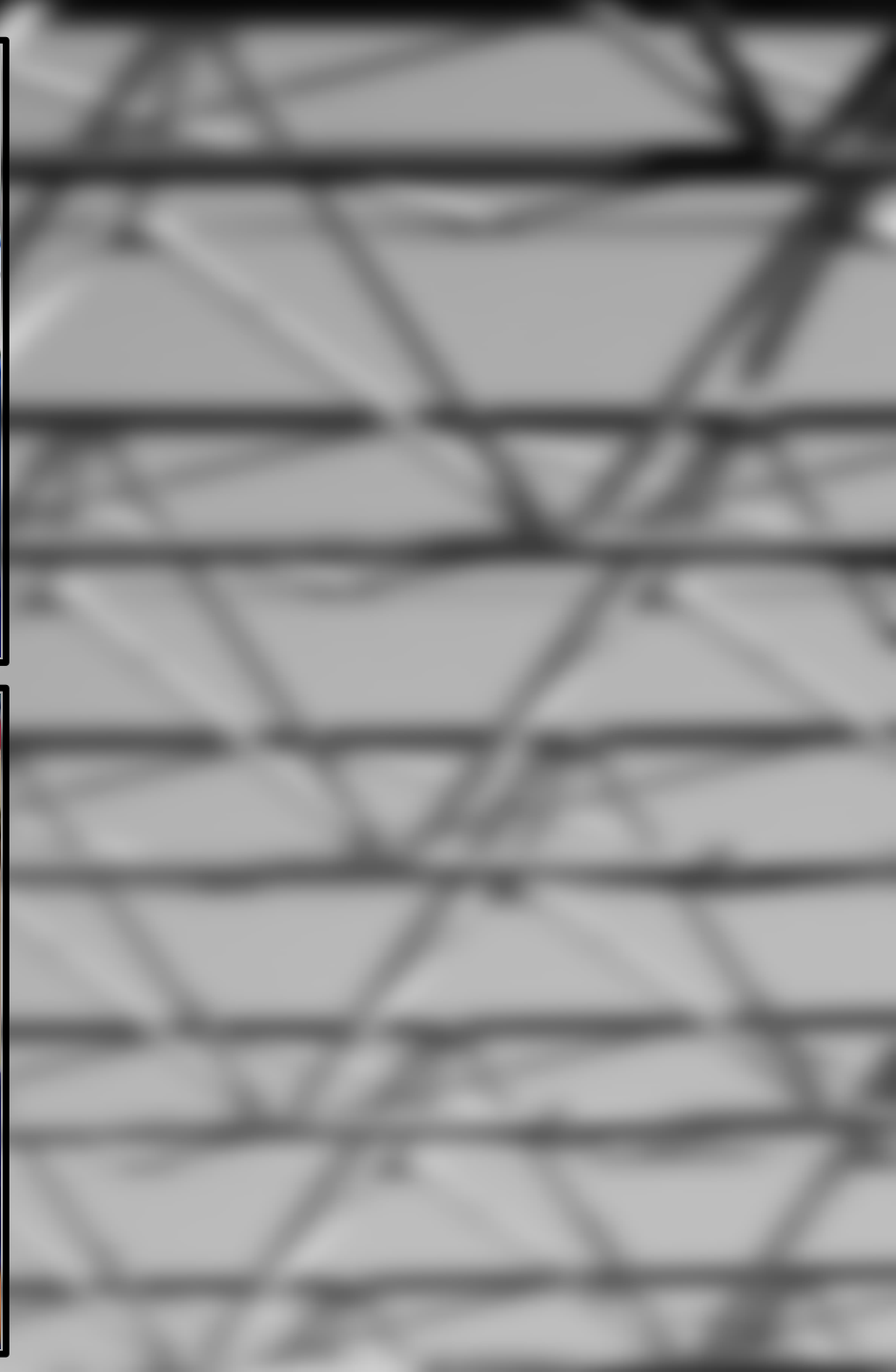


STRUCTURES

KS1 Challenge

Build the tallest tower you can using only 5 sheets of paper/6 straws and sticky tape. It must stand up on its own.







LKS2



Make a photograph frame that stands up by itself. It will be a Christmas present to someone in your family.



“You have to be realistic when you are designing something.”

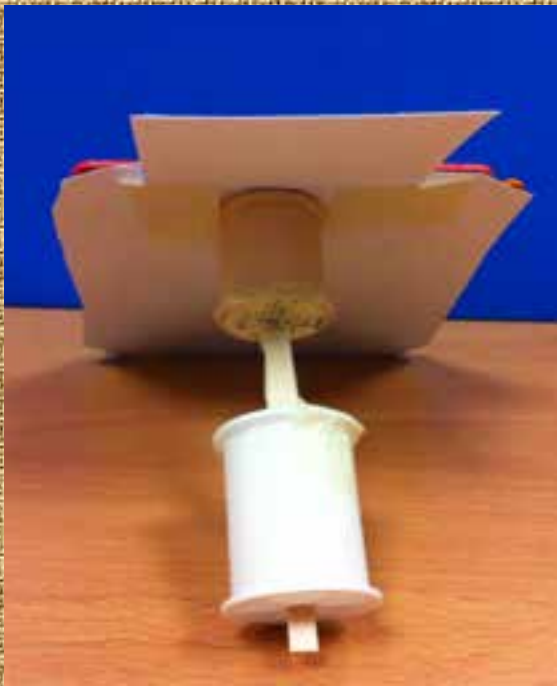


“When you look at things other people have made, you know what works.”



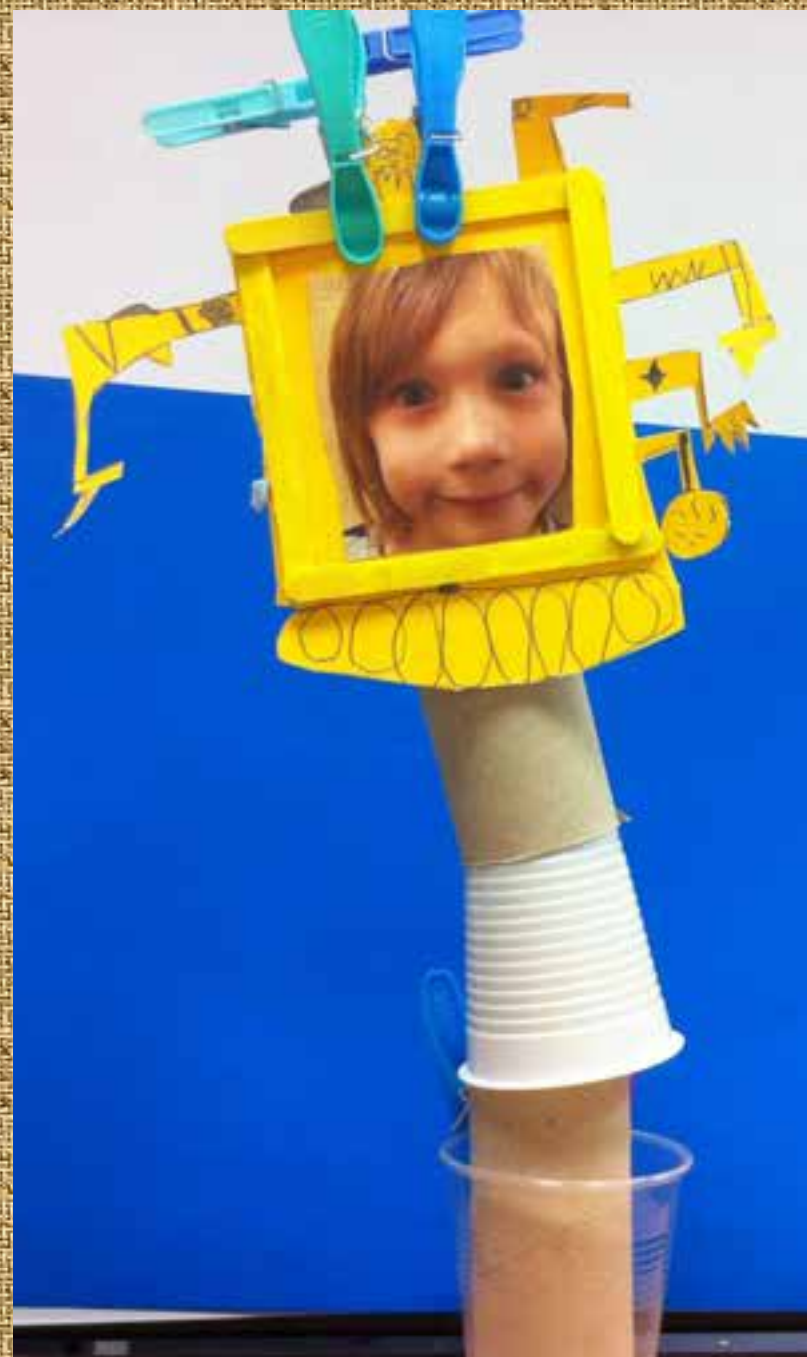
“It has to be the right size and strong enough. It should do what it's meant for.”





"It's good when
it's hard
because you
feel great when
it works."





Design a vehicle that can travel on a flat surface, powered by the wind.

UKS2

