

## LO: to make and evaluate a product

Success Criteria
MUST
Identify key elements of the construction
Identify areas that meet and do not meet the design brief
SHOULD
Describe the construction process
Identify areas to further develop the product
COULD
Suggest how the product could be developed further with the user in mind.

## Design Brief

- Needs to hold items securely
- Travel using gravity as power
- Materials need to be joined together
- Potentially be able to link to other carts

## The Making Process- what did you do? How did you join materials?

First I began to mark out where I needed saw so it would be the right size for my cart. Then I used the saw so I could begin about thinking how I was going to put it together. While the glue gun was being used, I was marking out on cardboard the base and sides of the cart. At first the sides I planned out were too big, so I had to remeasure them. By this point the glue gun was available, so other people in my group went to use it while I finished cutting out the cardboard. When they came back, all the cardboard was cut out and we were ready to start putting it all together. We went back to the glue gun table and started to stick our pieces into a cart. At first we glued it in the wrong place, so the wheels wouldn't be in a straight line. So we had to take it apart and do it again. This time it worked and the wheels were ready. Now we began to put the cart together. After a few minutes, the cart was fixed and working. The only thing we didn't complete on the design brief was the potential ability to connect to other carts, this was because we weren't sure how to connect them.

## What was easy to do? What parts meet the design brief?

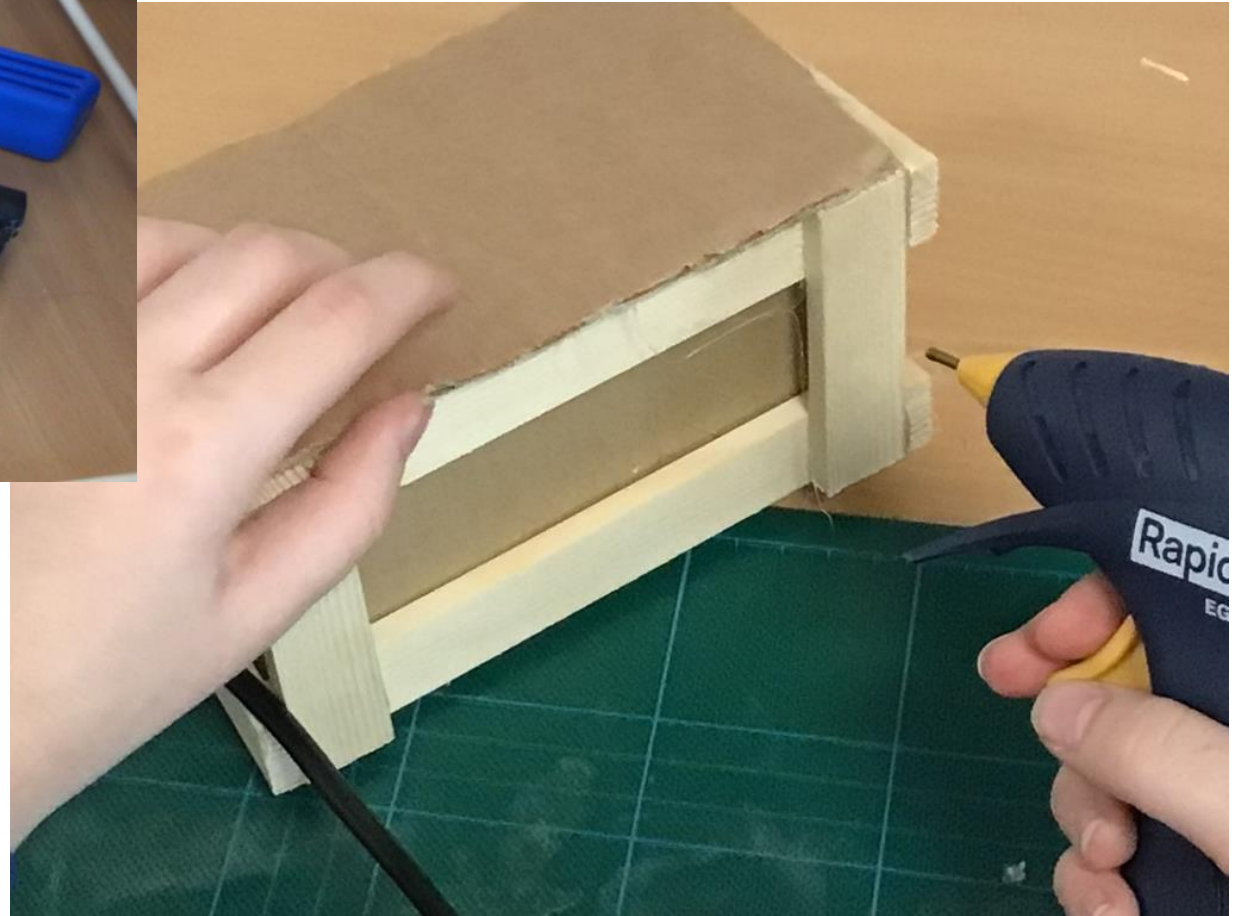
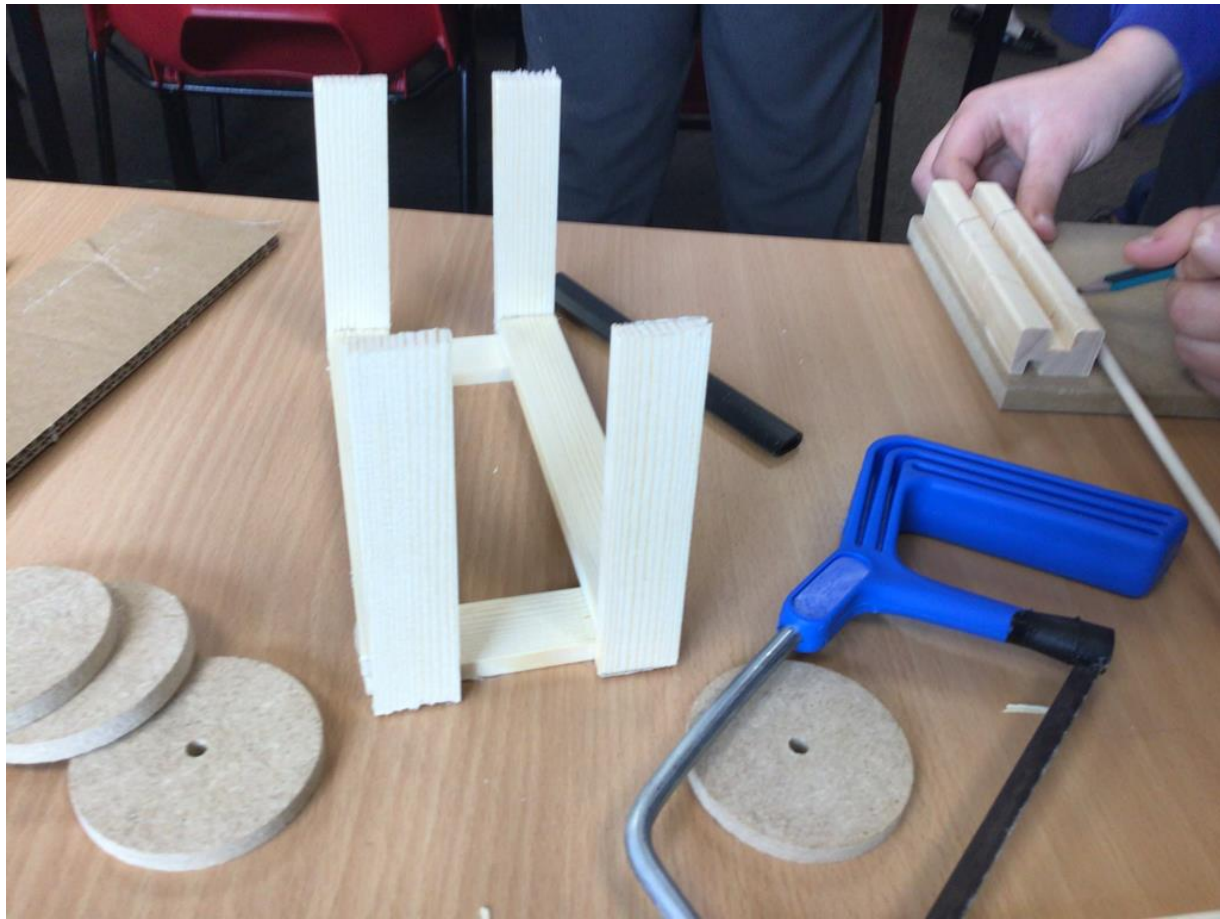
Some parts of it were easy and some were tricky. The easy things were measuring the sawing point and cutting out the measurements.

## Which parts were difficult to construct? Are any parts of design brief not met?

Parts that were difficult making sure the wheels work. This was because it was unclear what the problem with them was, but the end it was because the triangles were too big, so when we cut them the wheels worked fine.

## What would you do to change/ amend your product to improve its performance?

I would make the cart bigger so it can carry a bigger capacity of coal. Although my cart was moving fine, the amount it could carry was very small, so I would make it a bit bigger.



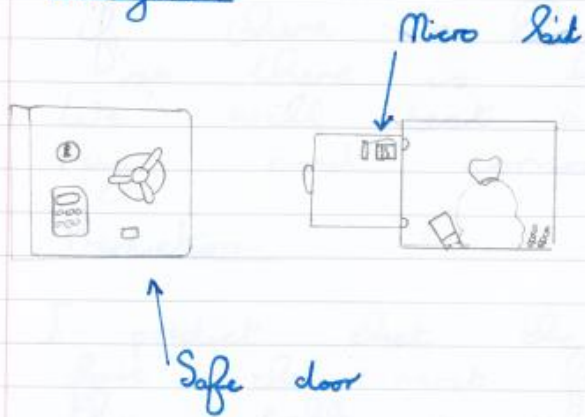
# To: To design a police gadget.

Success Criteria	✓
I must	
explain the purpose of your alarm	
I should	
Discuss how the micro-bit technology will be used	
Complete a final design	
I could	
Create an advertising poster	

## Purpose.

The purpose of my alarm is to keep someone out of a safe. This would help when someone tries to break into it.

## Diagram.

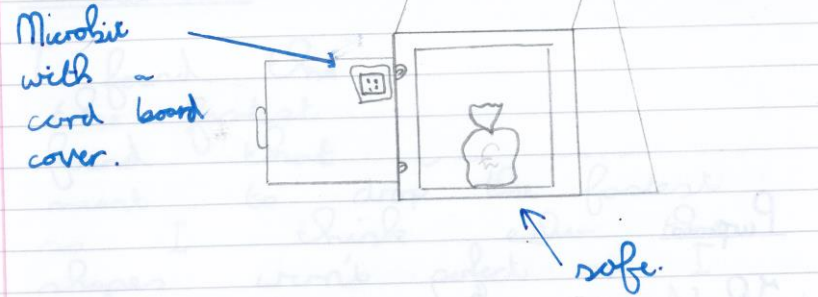


## Trigger / input.

The trigger will be when the door opens it would shake.

My coding will be, on shake it will play a melody which is the alarm.

## Final design



Explain how you will program your microbit. I will program my microbit so that when it is shook the alarm will go off.

Success Criteria	P
MUST	
To use my knowledge of other's designs to help me design lively products.	
SHOULD	
To make realistic plans.	
COULD	
To use words and labelled sketches to communicate my designs.	

Who is your design for?  
 My design is for age 2+ because 2 and over will like it.

What materials are you using and why?  
 We are using cardboard because its more cardboard is safer than wood and if you use wood you might get a splik



Wednesday 29<sup>th</sup> June  
 LO: to design a moving toy car.



- What resources will you need?
- shapes of cardboard
  - orange paint
  - small wheels
  - wooden stick
  - rubber band

- What equipment will you need?
- cellostape
  - glue
  - saw
  - tube
  - scissors

Success Criteria	P
MUST	
Make products, refining the design as work progresses.	
Create products using levers, wheels and winding mechanisms	
SHOULD	
Cut materials safely using tools provided.	
Measure and mark out to the nearest centimetre.	
COULD	
Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling).	
Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).	



When we designed our car we wanted to use plastic but we changed it to cardboard because its lighter. When we tested our car the cardboard was on the floor so it did not move well. Next time we would need to change the wooden wheels to the cotton plastic reels and make the dowels lower. What cars worked