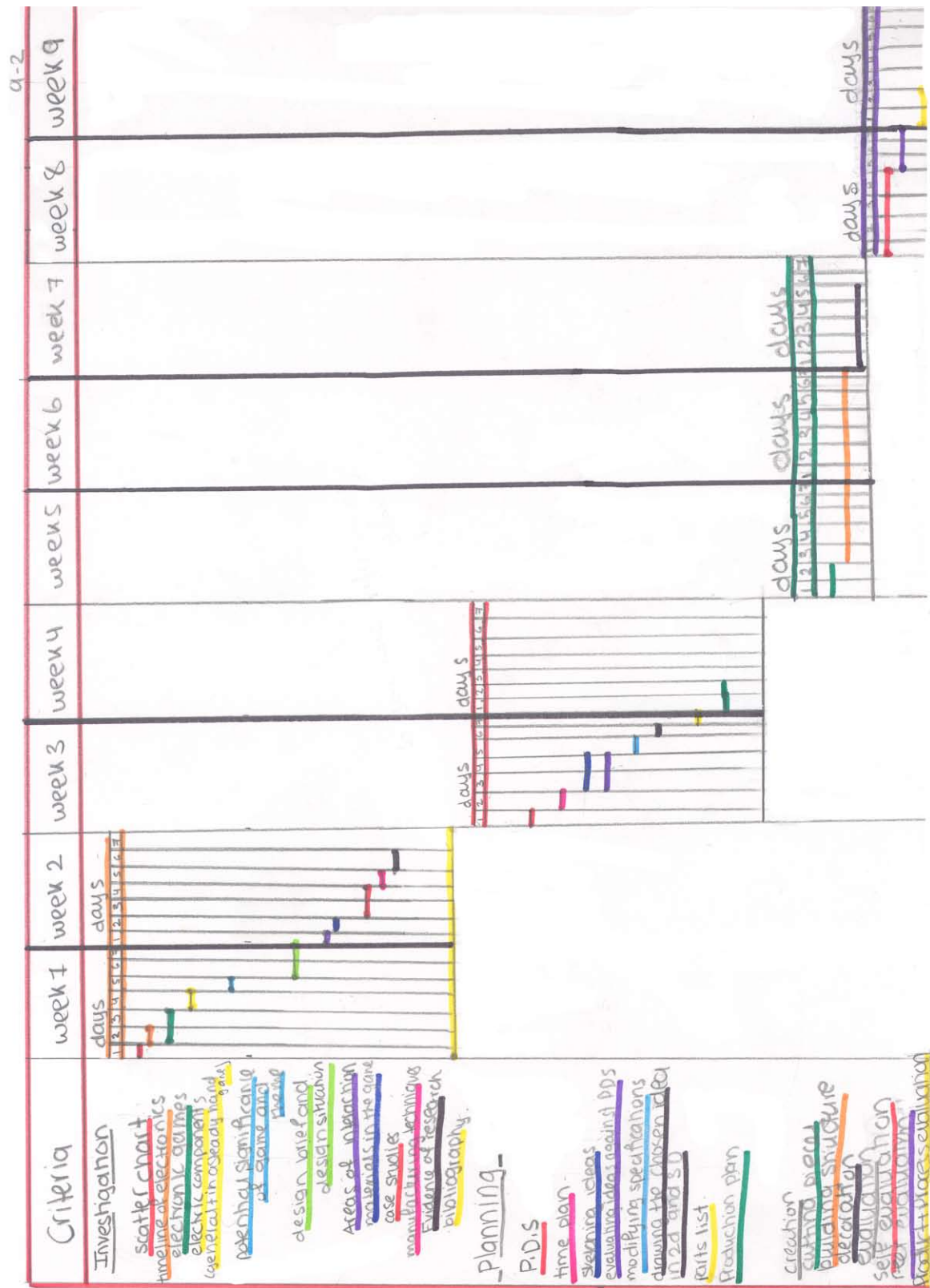


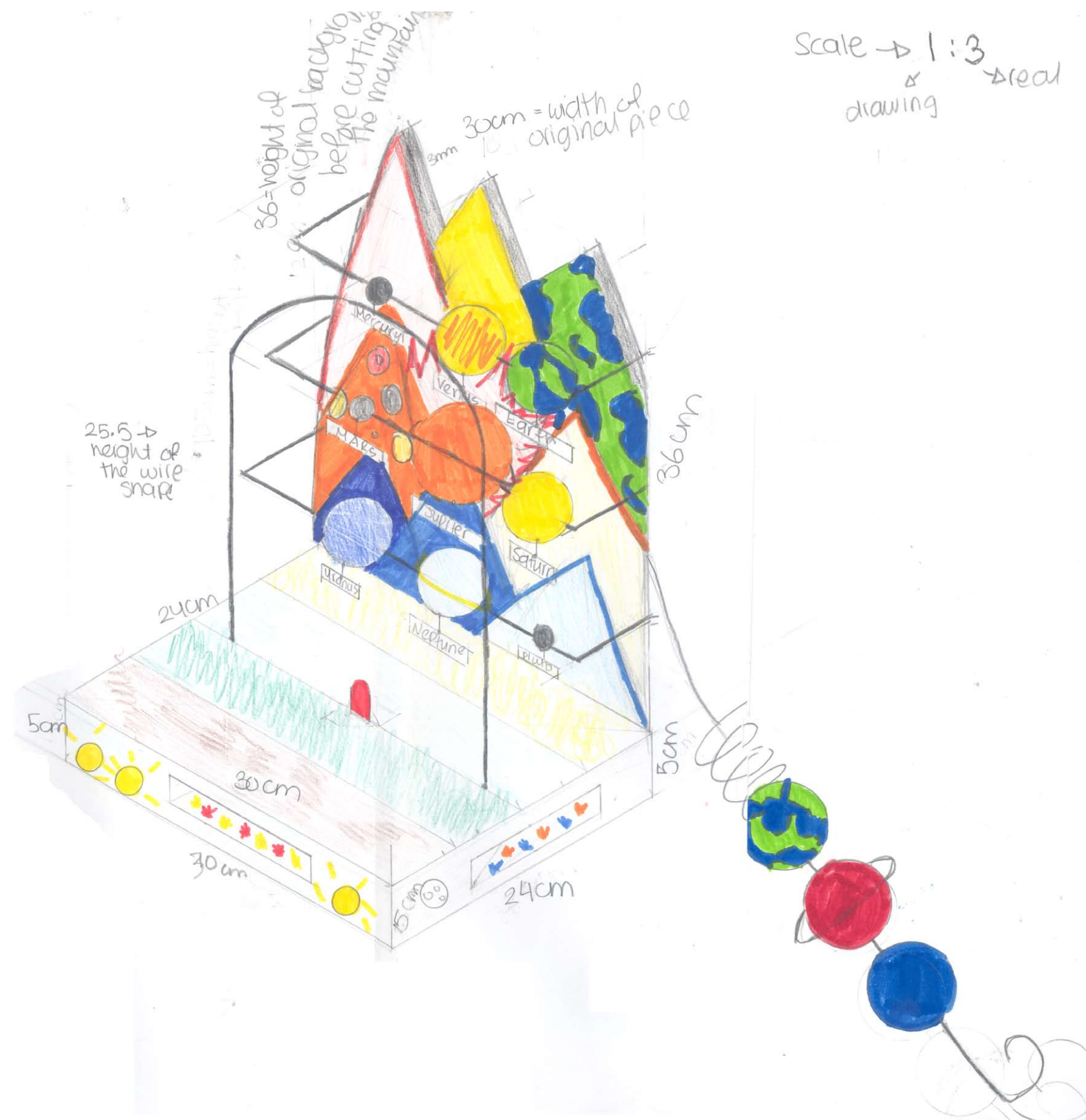
Criterion C: plan



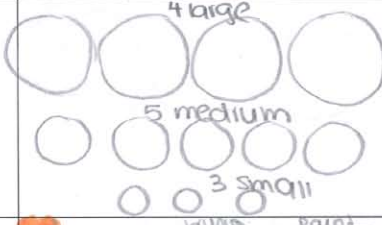


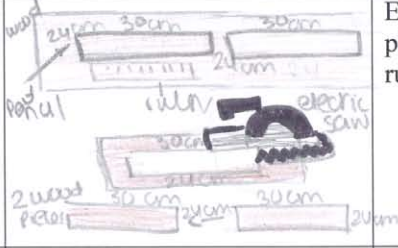
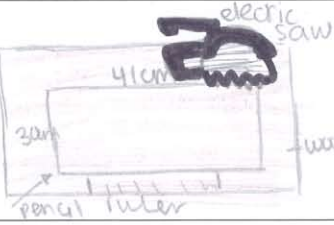


My Product Design Specifications (P.D.S)

Modification of the product design specifications

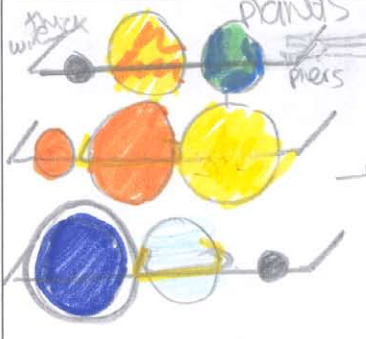

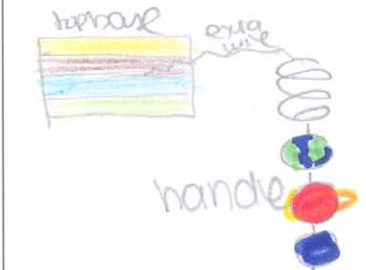

<u>Essential</u>	<u>Desirable</u>
Printed circuit board	Sticking materials on the background eg. rocks
Wire shape	Having a decorated inner compartment, that could be seen by the base. (acrylic part)
Compartment for circuit	Using recycled parts
Handle-wire follower	Combining acrylic and wood to use them in the same compartment
Visible output(LED)	Wire shape related to the theme
Having a theme	Colorful and creative
Done within a specific period(creation period-3weeks)	Shaping the base(circular or rectangular) and being creative in decorating it
Not too complicated	Parts sticking out of the background or compartment
Having a potential significance	Place to put the handle
Using available materials	Using materials from nature eg.leaves
Using cheap materials	Having a background that contains different shapes.
Related to the theme	Joining materials such as wood, acrylic and metal to produce the game
Having a background related to the theme	



My Production Plan

Step	Diagram	Equipment used and materials needed	Prediction of time taken
Buy 12 bouncing balls that have different sizes. Choose the sizes according to the sizes of the planets on the sketch: 4 large, 5 medium, 3 small. Identify which ball is which planet		Non	20 minutes
Use color paint to paint each bounding ball, according to the color of the planet of each ball.		Paints, and a Brush	10 minutes
Using the drill, make a hole through each of the bouncing balls, after the paint dries.		Drill	20 minutes
Get a large piece of wood. Use a ruler and a pencil to mark 2 rectangles measuring 24cm*30cm each, on the piece of wood. Those would be the top and the bottom of your base. Cut those pieces out using the electrical saw.		Electrical saw, piece of wood, ruler and pencil	3 minutes
From the same piece of wood, use a ruler and pencil to mark a rectangle measuring 41cm*30cm. This would be the background. Cut this piece out using the electrical saw.		Electrical saw, piece of wood, ruler and pencil	3 minutes
From the rectangle measuring 41cm*30cm, design the mountain shapes on the piece of wood, using a pencil, and by using the designs on the sketch. Using the saw cut the top pieces of wood, on the line marking the mountain on the top.		Saw, your sketch, piece of wood, pencil	10 minutes
Use paint colors, to paint this piece of wood, according to the mountains in which you have drawn and cut out, paint according to the sketch, which shows the surfaces of		Paint colors, Background	20 minutes

The production plan is 4 pages long; only the first and last pages are represented.

On each piece, put 3 planets, from the holes you have drilled, the order of planets is according to the sketch. Bend those pieces from the sides using the pliers, as to form half a rectangle on each, using the glue gun, stick those wires on the background, in the order according to the sketch			
Now shape the Handle, take the extra wire which you took out from the base, and attach it to the spring shaped wire, you previously do, then Get the 3 balls left, and put them into the wire, from the holes you have earlier drilled.		Wire, 3 bouncing balls	20 minutes
Attach a thick wire to each planet. Using the glue gun. Then cut 9 equal rectangles of acrylic using the saw. On each piece right the name of each planet using glitter. Use the glue gun to attach the nametag of the planet to the thick wire on each planet.		Saw, glue gun, thick wire, acrylic, glitter.	20 minutes


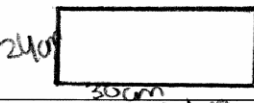
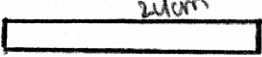
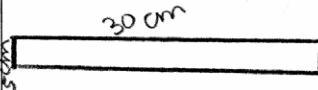
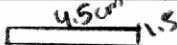
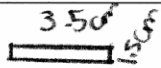
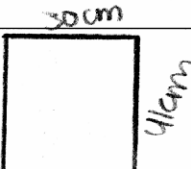
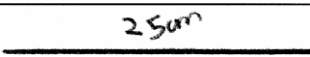
Major steps Taken:

- 1- Coloring the bouncing balls according to the colors of planets
- 2- Cutting the pieces of wood using the electrical saw.
- 3- Shaping and coloring the background
- 4- Designing the top base
- 5- Putting the PCB on the base, and making holes for the LED and the extra wire to come out
- 6- Joining different parts using the drill and nails
- 7- Making the wire shape
- 8- Making the handle
- 9- Making name tags using acrylic

Evaluation of my plan:

My production plan seems to be good and I think I'm being quite realistic in my timing. Having done this will help me during my creation process as I will only need to follow the plan that I have created to the letter instead of losing time thinking about it. If during the creation process I realise that some aspects do not work, or are unrealistic, I will make the necessary changes.

My Parts List

<u>Part</u>	<u>Size (cm)</u>	<u>Number of pieces</u>	<u>Material</u>	<u>Drawing</u>
<u>Base</u>				
A	30*24	2	MDF wood	
B	24*5	2	MDF wood	
C	30*5	1	MDF wood	
D	4.5*1.5	1	Acrylic	
E	3.5*1.5	2	Acrylic	
<u>Background (Includes back side piece)</u>	41*30	1	MDF wood	
<u>Wire Shape</u>	25	1	Wire	
<u>Wire coming out of background</u>	30	3	Wire	