

East Renfrewshire Council: Education Department Practitioner Moderation Template

School Code	Т
Practitioner Code	T10
Curriculum Area(s)	Math and Technologies
Level	2nd
Stage(s)	P6
Specific subject (if applicable)	ICT and Maths

Experiences and Outcomes:

Having discussed the variety of ways and range of media used to present data, I can interpret and draw conclusions from the information displayed, recognising that the presentation may be misleading.

MNU 2-20a

I can display data in a clear way using a suitable scale, by choosing appropriately from an extended range of tables, charts, diagrams and graphs, making effective use of technology.

MTH 2-21a

As I extend and enhance my knowledge of features of various types of software, including those which help find, organise, manage and access information, I can apply what I learn in different situations.

TCH 1-03a / TCH 2-03a

Throughout all my learning, I can use search facilities of electronic sources to access and retrieve information, recognising the importance this has in my place of learning, at home and in the workplace.

TCH 2-03b

Learning Intentions:

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LI 2: To research for information

LI 3: To present data appropriately.

LI 4: To use a software programme.

LI 5: To interpret information from a diagram.

Success Criteria:

SC 1: I can discuss different ways of organising information.

SC 2: I can use the internet to research theme parks.

SC 3: I can use information to create a diagram.

SC 4: I can use excel to work out calculations.

SC 5: I can explain my results.

Briefly outline the context and range of quality learning experiences that have been provided making reference to the chosen design principles.

Breadth, Depth, Challenge & Enjoyment, Differentiation

Context: Pupils were learning about data handling in math which coincided with financial education week. The theme park task was an opportunity for children to explore finance and excel in a challenging but enjoyable way.

Depth: Three separate tasks offered pupils the opportunity to reinforce the skills required with excel.

Breadth: Children were given the opportunity to explore a wide range of maths and ICT skills throughout the project.

Challenge: Pupils were able to challenge themselves with the amount of support they required. This was differentiated on the pupil hand-out as good, great or excellent skills. Pupils were able to experiment with their graphs and use a variety of features of excel to personalise their graph.

Differentiation: The amount of teacher and peer support given to aided less- able pupils.

Enjoyment: Pupils found the task fun and enjoyable and were enthusiastic throughout as this was based on their ideas and designs.

Record the range of assessment evidence that was gathered to meet the success criteria (Say, Write, Make, and Do) considering breadth, challenge and application.

SAY:

Pupils discussed what makes a good theme park, why people would visit and how money would be made by the owners.

Pupils presented their final data to the class.

Write:

Pupils made a mind map of what makes a good theme park and wrote an evaluation of their results.

Make:

Children made a blueprint of their first ideas.

Children used an excel spreadsheet to make and design a theme park. They individualised their layout .

Pupils made their themepark using word; shapes, copy and paste from online or from lego.

Do:

Children researched theme parks using google.

Children inputted data into an excel spreadsheet that they had created. They used a formula to calculate totals and created a diagram using the chart function.

Did the learner successfully attain the outcomes?

YES/NO

Briefly outline the oral/written feedback given to the pupil on progress and next steps, referring to the learning intention and success criteria.

Teacher: Continuous, oral feedback given on a variety of ways of displaying information obtained and ways to create a diagram during group work and class discussion. Oral feedback was given during the ICT tasks and next steps were given to encourage pupils to display their information in a variety of ways.

Written feedback was given on pupils printed work for them to read.

Peer:2 stars and a wish was offered during the evaluation process where pupils – how to improve and pupils offered reasons why they would visit each o there theme parks.

Self: continuous via traffic light, twitter wall and thumbs up.

: Written conclusion was a way of pupils self –assessing that they had understood the learning intentions of the task.

Pupil Voice:

What have you learned? How did you learn? What skills have you developed?

I used google to research theme parks and found out lots of different features of theme parks and why people would visit them.

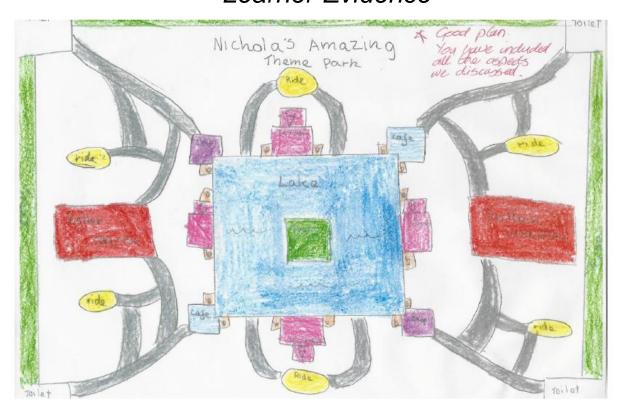
I learned how to use the calculator function in excel to total my figures and I became more confident at creating the graphs.

I learned by listening to the lesson and used the powerpoint handout to help me.

I now feel able to use excel more often.

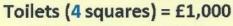
I was able to explain my graph to my class. I enjoyed the task very much. NS P6.

Learner Evidence



- Using a spreadsheet
 - √ Spend up to £500,000
- ✓ Insert a mixture of attractions/facilities and join them up with paths

Roller Coaster (12 squares) = £50,000 Big Ride (6 squares) = £25,000 Cafe/Shop/Ice Cream Stand (4 squares) = £8,000



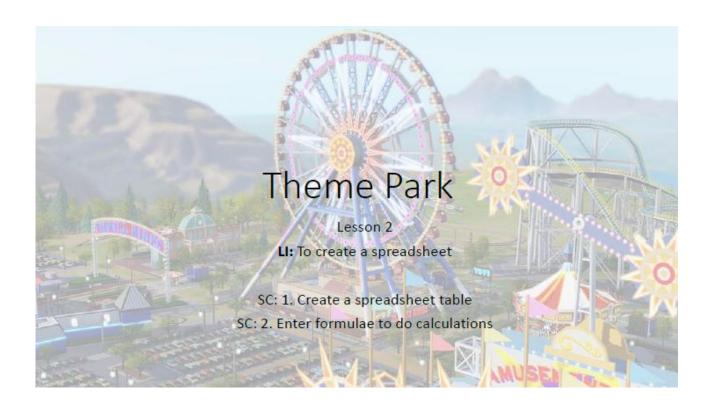
Bin (1 squares) = £50 Tree (1 squares) = £200

Path (1 squares) = £40

Lake (1 squares) = £1,000











Example of Theme park set up spending.

Theme Park Attractions Bought My Theme Park

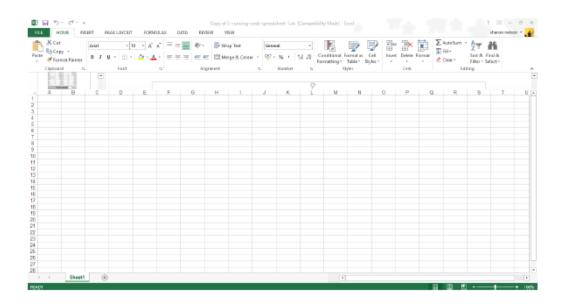
Item	Cost Per Attraction	No. in Park	Total Cost
Roller Coaster	£50,000.00	1	£50,000.00
Ride	£25,000.00	1	£25,000.00
Café	£8,000.00	1	£8,000.00
Shop	£8,000.00	0	£0.00
Ice Cream Stand	£8,000.00	0	£0.00
Toilets	£1,000.00	0	£0.00
Bin	£50.00	0	£0.00
Tree	£200.00	0	£0.00
Path	£40.00	7	£280.00
Lake	£1,000.00	0	£0.00

Total amount of money spent:	£83,280.00
Loan left in bank to spend:	£416,720.00

Fill in your theme park notes.



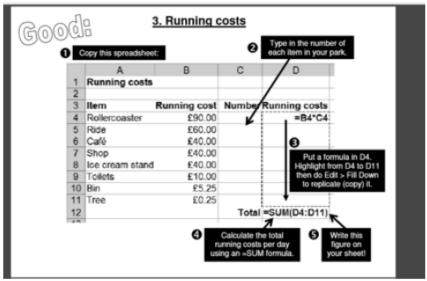
Open the new excel document.

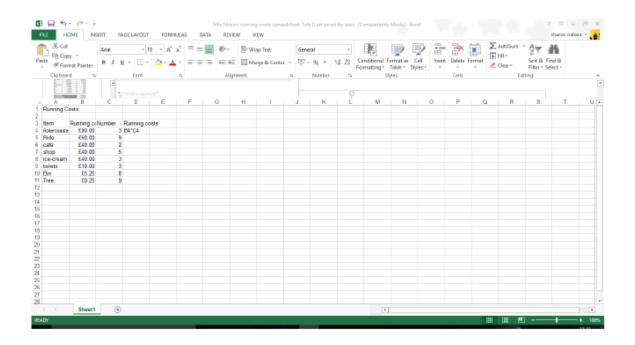


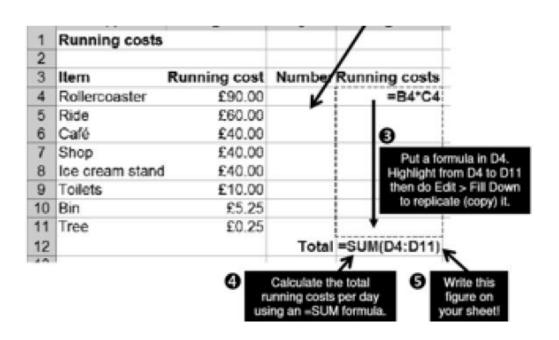


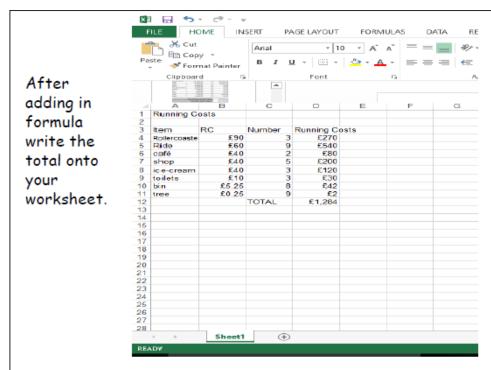
2. Running your theme park

To run your theme park the following costs will apply to each item that you have every day. How much will it cost to run your theme park for one day?



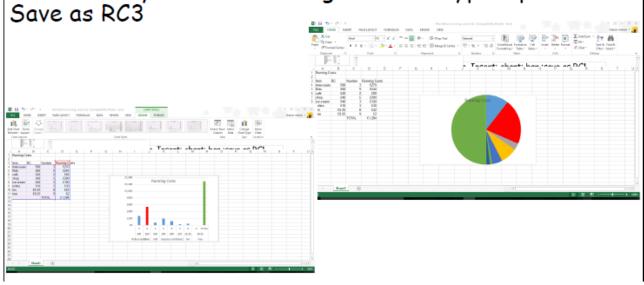






Next add in a graph. Insert: chart: bar :save as RC1 Insert: chart: pie save as RC2

Personalise your chart: change colour/ type / pattern



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4	Ride	Ride	Ride	Path	Path	Shop	Shop	Path	Path	loe Cr	Ice Cr	Path	Path	Gafe	Cafe	Path	Path	Mine	1 (100	Tree
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Theme Park Notes

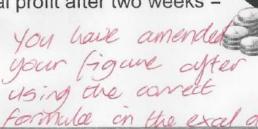
Item	Cost per item	No. in park
Roller Coaster (12 sq.)	£50,000	2
Ride (6 sq.)	£25,000	6
Café (4 sq.)	£8,000	2_
Shop (4 sq.)	£8,000	2
Ice cream stand (4 sq.)	£8,000	4
Toilets (4 sq.)	£1,000	+
Bin (1 sq.)	£50	12
Tree (1 sq.)	£200	50
Path (1 sq.)	£40	33
Lake (1 sq.)	£1,000	42



Total money spent by each visitor = £ | 0 6

Total running costs per day = £ 976

Total profit after two weeks =



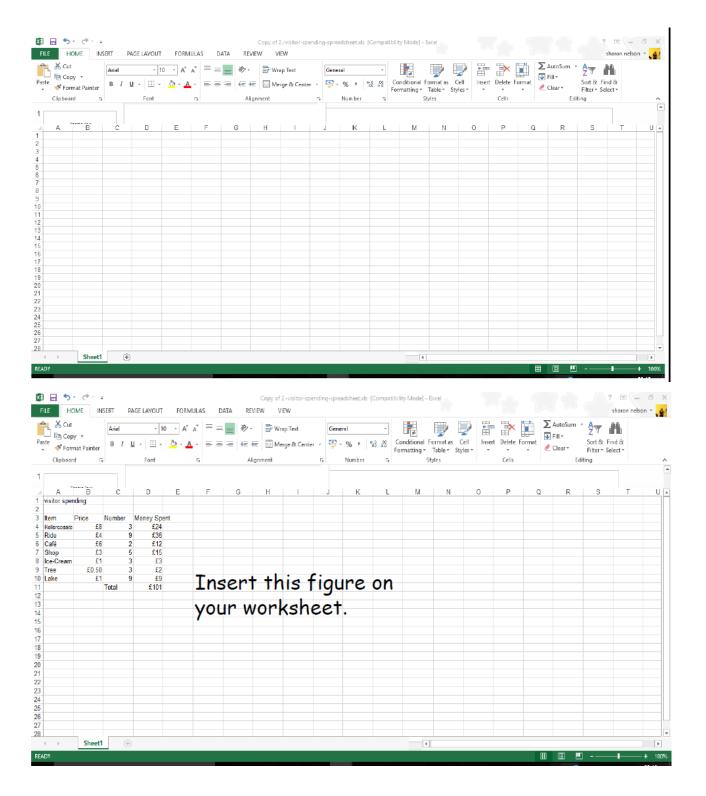




Visitor Spending.

We will assume that each visitor will have one shot on each attraction.

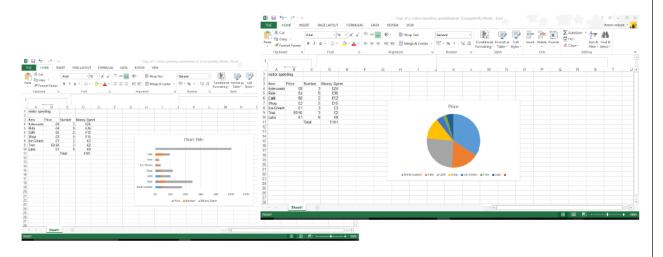
	Α	В	С	D
1	Visitor spendin	g		
2				
3	Item	Price	Number	Money spent
4	Rollercoaster	£8.00		=B4*C4
5	Ride	£4.00		
6	Café	£6.00		
7	Shop	£3.00		
8	Ice cream stand	£1.00		
9	Tree	£0.50		
10	Lake	£1.00		
11			Total	=SUM(D4:D10)

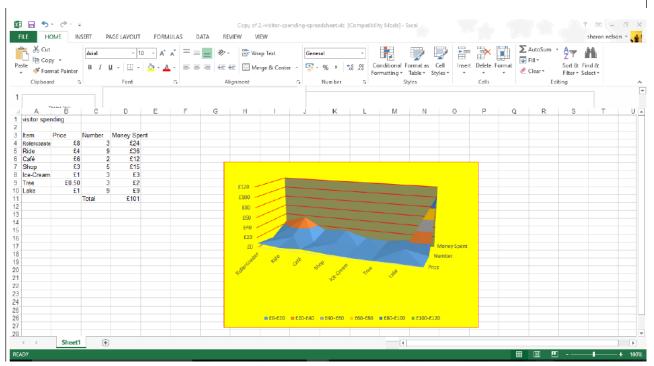


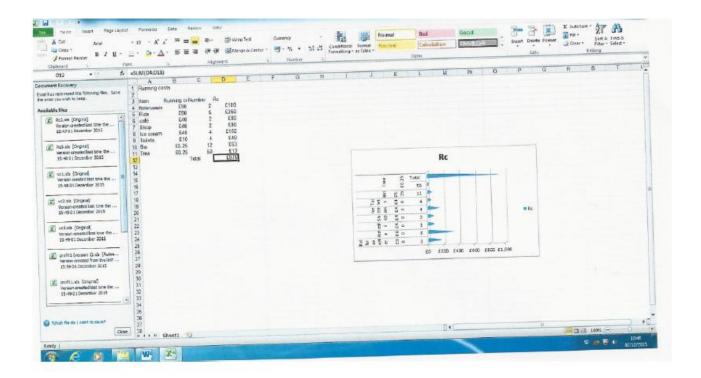
Insert: chart: bar chart: save as VS1

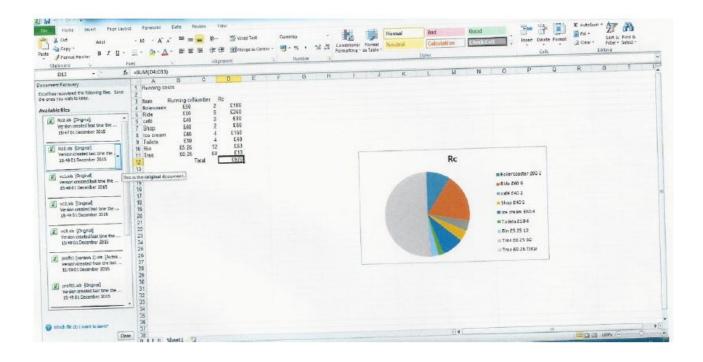
Right click: Change chart type : pie chart: save as VS2

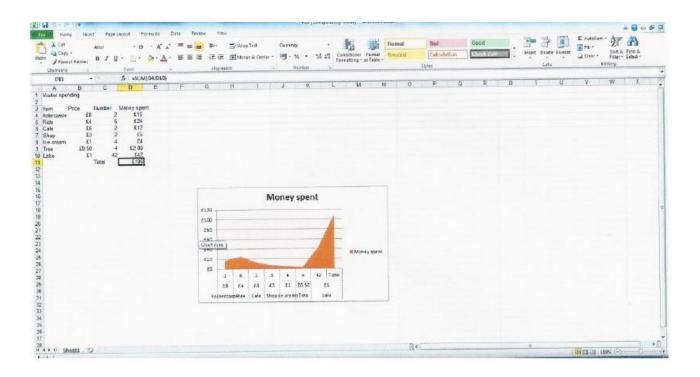
Right click. Change chart: personalise your chart: save as VS3



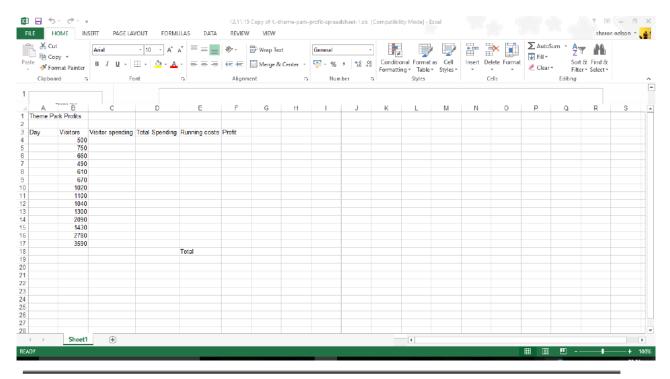


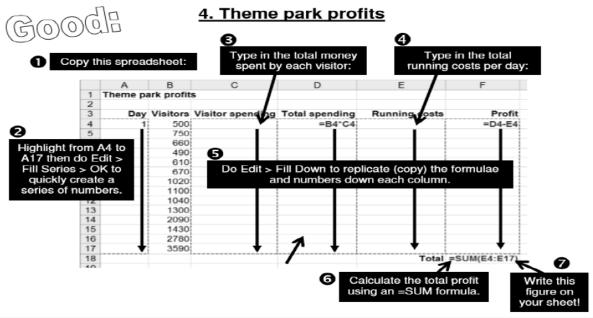




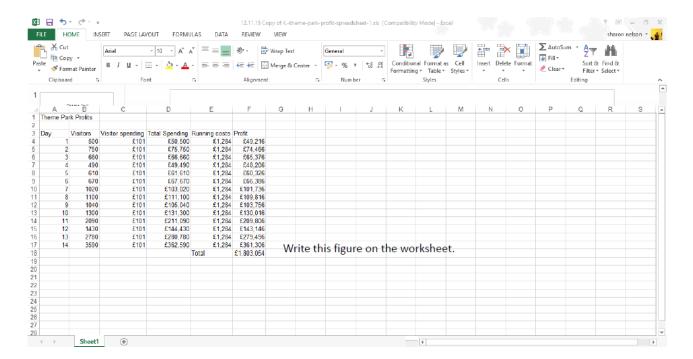




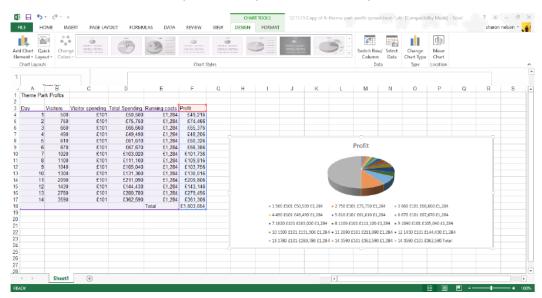




Learner Evidence



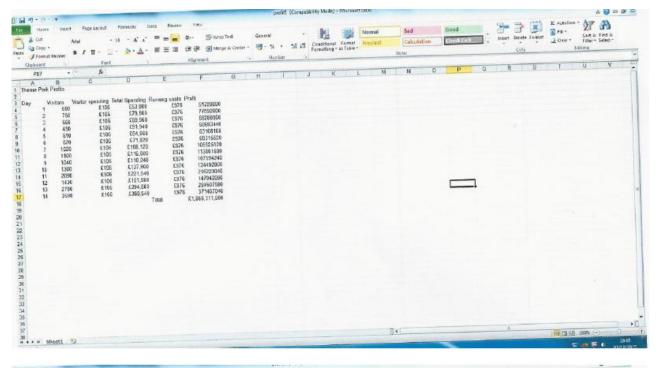
Create a bar chart, pie chart and chart of your choice. Save as profit 1 profit 2 and profit 3.

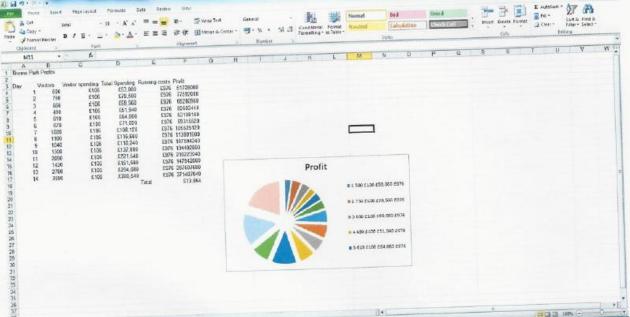


Extension task: Is you Visitor spending estimation too high? You have to decide how much money each visitor may spend.

- ·Extension task:
- How much could you charge for a ticket and still make profit?
- Think about what you would pay for theme park entry.
- · Will you offer a family discount?
- Recalculate your profit according to your new visitor spending.

Learner Evidence





Next steps: label your x and y-axis.

Theme Park Conclusion

Following the class discussion about theme parks and the features that attract visitors to them, I was asked to design a blueprint on paper for a theme park which included the things we had spoken about. I had to think about rides, rollercoasters, scenery, like trees and lakes, shops and cafes and how many of each I would include in my park. I decided to call my theme park RR

I then used an excel document to create my theme park. I had a budget of £500,000 and everything I included cost me money. I was not allowed to go over my budget and the excel document kept going down every time I added a new item.

After that I created a new excel document to work out how much it would cost to run my theme park. Mrs Nelson gave me the cost of each item and I used the excel calculator to work out how much it would cost based on how many of each thing I had in my park. My running costs were £976. I then used excel to create a bar chart and a pie chart of this.

Next I made a new excel document and used a different formula to calculate how much each visitor would spend if they were charged a certain amount of money for each ride. My visitor spending was £ 106 Again I created a bar chart and pie chart using excel.

Then I used a formula in excel, to calculate my profit.

My profit made was £ 1,865,311,680

I think that this an unrealistic amount of profit to make because in real life you wouldn't make this amount of money

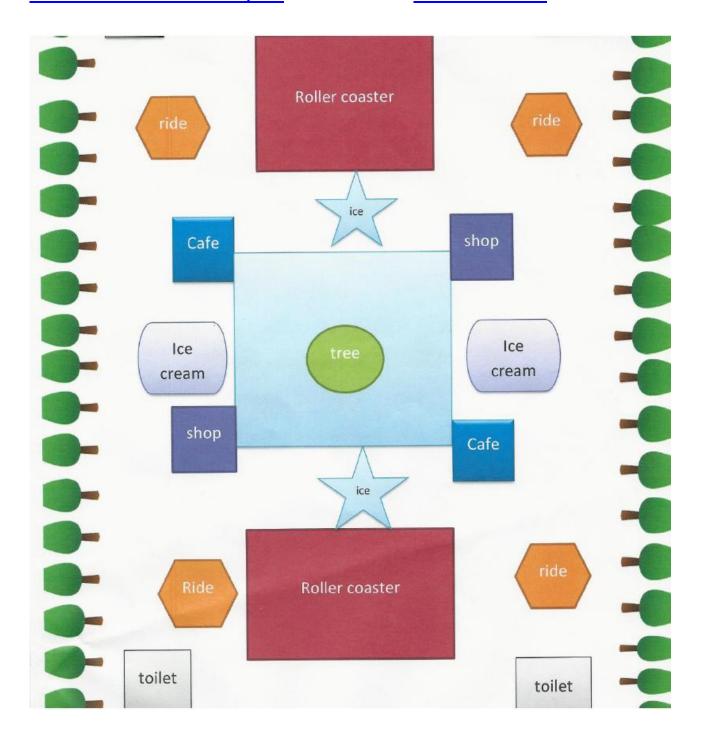
A better price for my theme park would be £30 per person

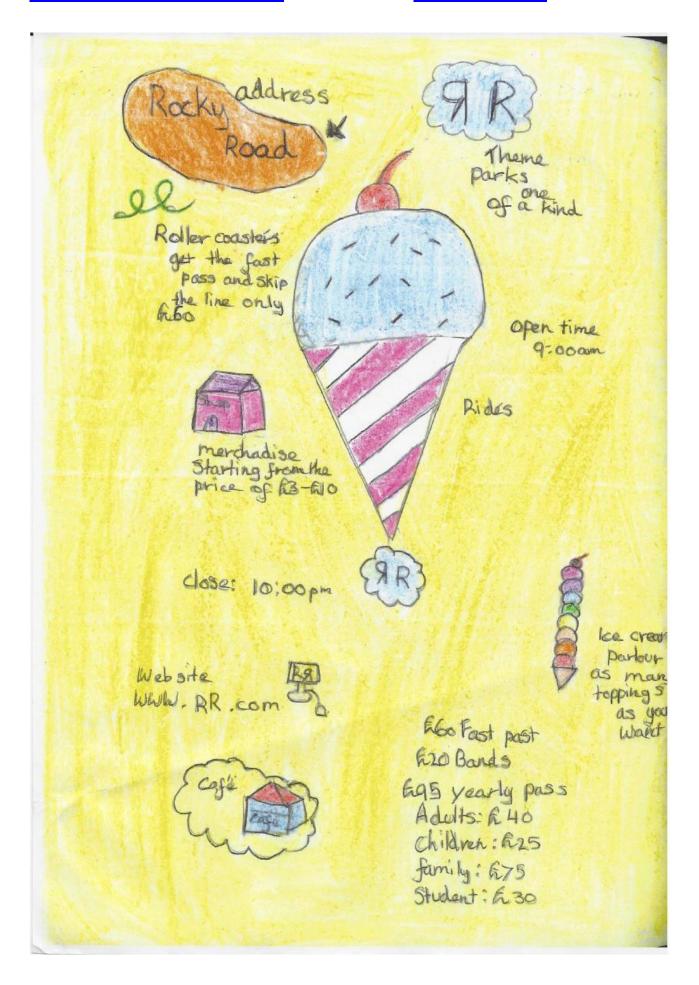
This would cover my running costs and is an amount that people would be willing to pay.

I then created a poster advertising my theme park. I had to include my unique selling point (USP) and the entrance costs.









Not included in	17	No	jember
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			+
LI: I can create a poster			
SC:	SA	PA	TA
I have used an image			1911
I have included the message of the poster (Why are you creating it?)	3		16
I have included a way to capture attention of the reader: fancy writing, alliteration, onomatopoeia, a simile, a metaphor or a slogan.	d.		m
My text is eye-catching: think big / bold / colourful/ spacious / font.	9		14
I have included HOW to contact the theme park I have included the prices	19		111/
Comments:	127		an
W Variety of price applians offered bo	Jeu		_
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