

Theme Park

Stage 1

The Design



Information about Theme Park

Theme Park is a maths project which contains a number of different stages. We will set the next stage next week.

Each stage builds on from the previous one, which means stage 1 is REALLY important – it is one which will take the most time as well.

Information about Theme Park

Theme Park will use your problem solving and arithmetic skills.



Information about Theme Park

The ultimate aim of Theme Park is for you to design a new theme park and to make as much 'money' as possible!



Stage 1 – The Design

Your first task is to create a birds eye view map of your new theme park.

On a 16 x 25 square grid and using the information given in the next slides, can you create a birds eye view map of your new theme park?

You will need to be careful with how much you spend and how many squares on your map it will take.

An example of what you might find on a theme park map



Your Budget!

Your bank has agreed to loan you

£1,000,000

to spend on your theme park!



£1,000,000

There's lots to think about when building a new theme park:

- What sorts of rides will you have?
 - Major ones for adults
 - Minor ones for children
- What other facilities do you need to think about?
 - Cafes
 - Shops
 - Toilets
 - Carpark
- What themes will you have?
 - Wild West?
 - Space?

£1,000,000

The next slide tells you how much different aspects of the park will cost. Each ride will attract more people, especially the major rides (the more people that come, the more 'money' you will make – this will come apparent in later stages).

Please note that there are some items that you **MUST** have.

Attraction	Price	Number of squares on the grid	Notes
Major Ride	£60,000	15	The more major rides the more adults will pay to come.
Minor Ride	£25,000	10	The more minor rides the more children will come.
Café	£50,000	8	Popular with adults! The more you have the money you will make.
Shop	£40,000	6	Popular with children! The more you have the more money you will make.
Toilet Block	£15,000	4	The park must have 3 toilet blocks
Carpark	£5,000	1	The park must have at least 10 carpark squares
Paths	£1,000	1	Paths must connect everything together
Lake	£5,000	1	Makes the park more attractive This will appeal to adults and families.
Trees	£4,000	1	
Grass	£1,000	1	

How to plan it – 2 things.

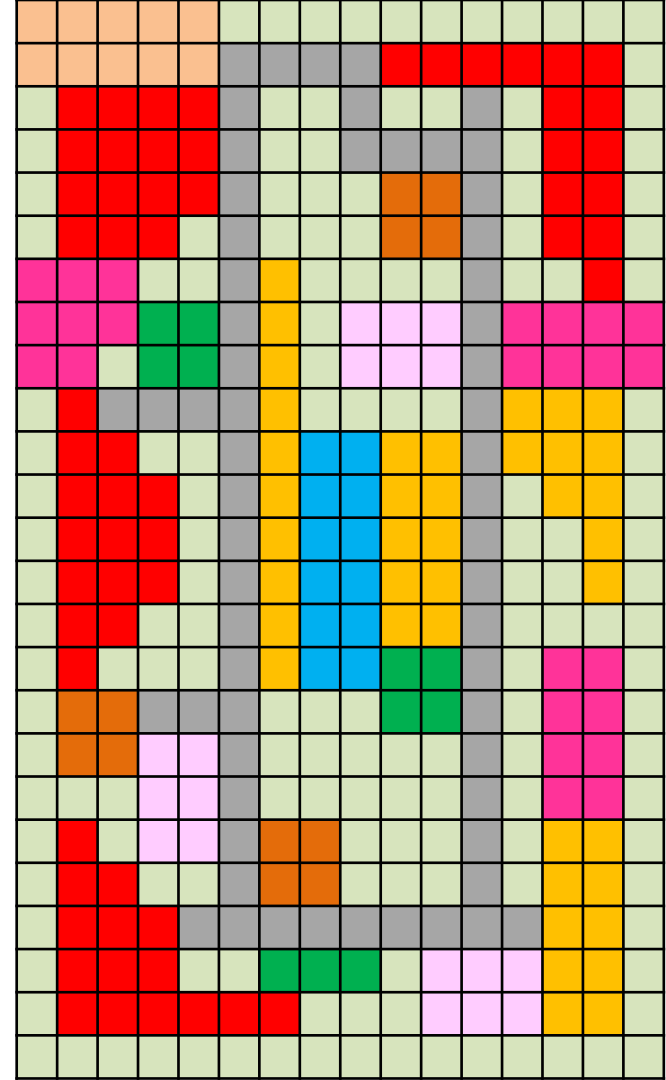
1. Create a drawing (a birds' eye view)
2. Keep a running list of prices. You CANNOT go over £1,000,000

Mega-points available for the children closest to £1,000,000 using all 400 squares.

We have done an example

Item	Number of squares	Cost	How many do I have?	Total cost
Major Ride	15	£ 60,000	4	£ 240,000
Minor Ride	10	£ 25,000	4	£ 100,000
Café	8	£ 50,000	3	£ 150,000
Shop	6	£ 40,000	3	£ 120,000
Toilet Block	4	£ 15,000	3	£ 45,000
Carpark	1	£ 5,000	10	£ 50,000
Paths	1	£ 1,000	60	£ 60,000
Lake	1	£ 5,000	12	£ 60,000
Trees	1	£ 4,000	11	£ 44,000
Grass	1	£ 1,000	153	£ 153,000
	400			£ 1,022,000

Unfortunately, we are £22,000 over budget and therefore cannot start to build our park.
It's back to the drawing board for us!



Good Luck!

