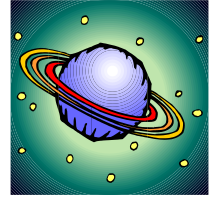


GALACTIC THEME PARK



The year is 2050. Man is now colonising outer space and you have decided to open the first Galactic theme park in history.

Your spending limit is \$5 000 000

You must carefully decide what sort of rides you are going to have. You also need to think about the other facilities visitors will need when they come to your theme park like toilets, cafes, shops and paths between all the facilities and rides.

Many theme parks have different areas that are 'themed'. In other words they might have an African area, a wild west American area or a 'Ye Olde England' area. Think carefully about what you want to have in yours.



Setting up your theme park

You now need to design and draw your theme park.

You will need to take on board the following information:-

- Use an A3 piece of graph paper to design your 'Galactic' theme park.
- You **must** use a scale of 1 square : 10m². (graph paper included here)
- The spending limit is \$5,000,000 , which **must not** be exceeded.
- There **must** be car parks for your visitors to use. You will need to allow 10m² for every 2 cars and assume that there is an average of 3 people visiting per car. (Basically 1 square equates to 6 visitors)
- There **must** be toilets for your visitors to use. You will need 1 toilet block per 1000 people visiting.
- There **must** be cafes and shops for your visitors to use.
- There **must** be a queuing area around each ride, based on an estimation of how many visitors will use the ride per hour.

Item	Area occupied	Cost
Major ride	9 sq	\$50,000
Minor Ride	6 sq	\$20,000
Café	4 sq	\$10,000
Shop	4 sq	\$7,000
Toilet block/1000 visitors	4 sq	\$5,000
Paths	Per sq	\$200
Lake	Per sq	\$5,000
Car park	Av. 3 visitors per car and each car needs $\frac{1}{2}$ a square	\$1,000

Think of a fee to charge each person to enter your park. Not too steep but enough so you will make a profit.

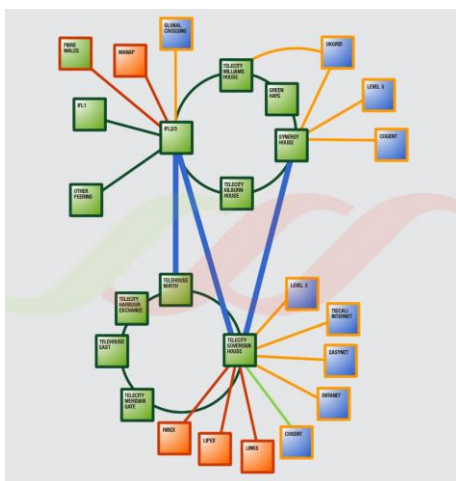
Entry fee = \$..... (Between \$50 - \$100 is reasonable.)

Mapping and Location



Create a pamphlet that offers the ideal route for adults and the ideal route for children to take through the park. Be sure to include map coordinates and compass directions so the customers know where they're going.

NETWORKING:



If you visit each ride at least once, what's the shortest distance you would travel?

For thousands more teaching resources please visit www.edgalaxy.com – cool stuff for nerdy teachers.

Calculating the cost of building your Park

Item	Area Occupied	Cost	No. of Units	Total Cost
Major Ride	9 sq	\$50,000		
Minor Ride	6 sq	\$20,000		
Cafe	4 sq	\$10,000		
Shop	4 sq	\$7,000		
Toilet Block / 1000 Visitors	4 sq	\$5,000		
Paths	Per Sq	\$200		
Lake	Per Sq	\$5,000		
Car Park	1 square = 6 visitors	\$1,000		
Totals				

You now need to calculate the daily gate takings.

To run your theme park the following costs will apply to each item that you have every day.

Ongoing Costs

Item	Staff Costs/ day	Electricity/ Maintenance/ Repairs /day	Total cost per day
Per Major ride	\$500	\$600	
Per Minor ride	\$400	\$400	
Each Cafe	\$300	\$200	
Each Shop	\$200	\$200	
Toilets	\$50	\$80	

Work out your Daily Cost to maintain your park:



Income

On average, each visitor will spend **\$15** at **each café** and **\$10** in **each shop**
plus their entry fee.

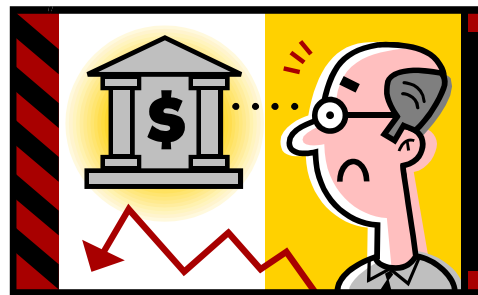
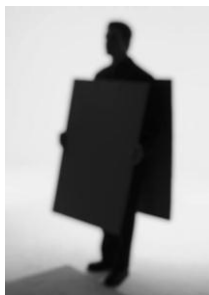
Total \$.....

How many people do you need to have come to the park to make your money
back interest free?

Work out your daily profit/loss for a month:

Day	Visitors	Profit	Day	Visitors	Profit
1	224		16	854	
2	132		17	375	
3	264		18	855	
4	398		19	964	
5	433		20	433	
6	253		21	275	
7	176		22	843	
8	157		23	1108	
9	524		24	423	
10	732		25	2867	
11	523		26	3853	
12	689		27	7443	
13	396		28	8465	
14	265		29	7423	
15	198		30	9426	

ADVERTISING BUDGET



Advertising!

You have to decide on the type of advertising you want to use to promote your theme park. The costs of the different types are given below.

- Design your advert.
- Present it to the class.

Your class will give you a rating of 1, 2 or 3 depending on how good they think your advert is, 1 being the best.

The number of extra visitors your advert will bring in per day depends on your rating.

- Work out the total extra profit you will get from your advertising.
- Was your advertising worth the cost? Was your advertising successful?

METHOD		LEAFLET	RADIO	TV
COST		\$10 000	\$15 000	\$30 000
		Extra visitors per day		
Rating	1	100	150	200
	2	50	100	140
	3	20	40	80

EXTENSION TASKS:

- How long will it take you to recoup the \$5 million with no interest?
- Assuming the interest rate is at 6.23 % per annum, use compound interest to calculate how long it will take you to recoup the \$5 million.