

# Visit Trail



## Key Stage 3 & 4

Links with National Curriculum - MA3 Shape, space and measures, Ma2 Numbers and the number system

Links with NNS - Ordering and counting

# Planet Maths Trail

Name:

School:

Date:



Go to the **Our Solar System** gallery

## Question 1

Complete the table to analyse the planets. Be careful about the 'units'.

*Hint: Hours, days or years?*

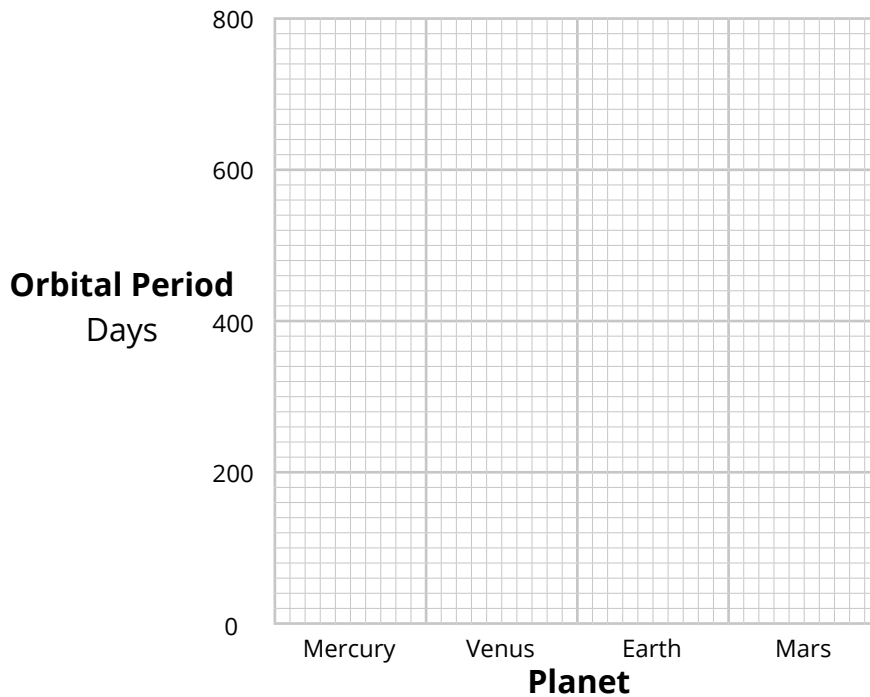
Planet	Diameter km	Distance to Sun $10^6$ km	Day Length (in hours)	Orbit Length
Mercury	4,878		58.7 days	
	12,102	108		
Earth			24 hours	365.25 days
	6,787			
		778		
Saturn	120,000		10.25 hours	
		2,868		84 years
Neptune	50,000			



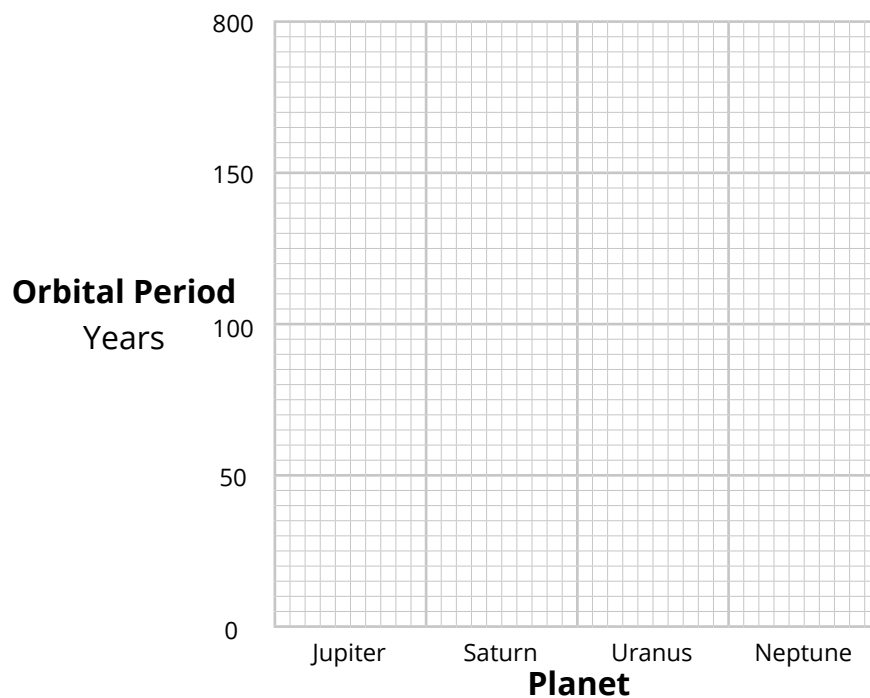
# Question 2

**Plot the Orbital Period of the planets. Decide if you require a bar or line graph. Separate the planets into rocky planets and gas giants.**

## Rocky Planets



## Gas Giants





## Question 3

Look at the 'diameter' column on your planets table.  
**You need to calculate the circumference of each planet using the following equation:**

$$C = \pi D$$

C = Circumference  
 $\pi = 3.142$   
D = Diameter

Using the circumference you have calculated, look at the 'day length' column.  
**Calculate how fast each planet is spinning in km/h (kilometres per hour).**  
**You need to divide the circumference by the day length.**

Planet	Circumference <i>km</i>	Rotational Speed <i>km/h</i>
Mercury		
Venus		
Earth		
Mars		
Jupiter		
Saturn		
Uranus		
Neptune		