

Lydiard Park Academy, Term 2: January 2023

“Mathematics is not about numbers, equations, computations or algorithms: it is about understanding” **William Paul Thurston**

## Where can maths take me?



### Forensic Investigator

Forensic investigators require maths to calculate specific and objective evidence in a crime to help convict a perpetrator. Mathematics plays a crucial role in many crime scenes and investigations; it helps us think analytically and have better reasoning ability. Topics such as: statistics, error-checking, accuracy of algorithms and understanding data sets.

#### **Term 2: Important dates**

Year 7 – PGL Maths 27<sup>th</sup>  
February – 1<sup>st</sup> March

Year 8 – Assessments in March

Year 9 – Term 3 assessment  
WC 03/01 2 papers

Year 10 – Disneyland Maths  
LIVE! March 4<sup>th</sup> – March 7<sup>th</sup>.

Year 11 – March Mock Papers

Where can I see and carry out maths locally in the real world?

### The Golfing Hole



Swindon SN5 7UT

Adult: £8.50 Child: £7

Complete an 18-hole course and work out the averages per hole of your team. Mean, median, mode and range of each hole - what conclusions

can we draw from each hole?

### Coate Water County Park



Swindon SN3 6AA

Free entry.

Parking £1 – £2

Set up a project to identify relationships.

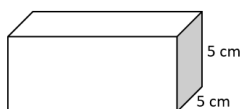
1. Visit Coate Water a number of times and collect a sample of people entering the country park within a given time, write down the temperature. Can you correlate these into a scatter graph?

2. Estimate how many swans/birds there are at a given time. What is the ratio swans : people at a given moment in time?

*Present your findings and bring to your teacher - we would love to see!*

## *Keep Calm, Do Maths.*

### 1 Foundation

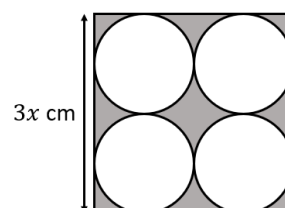


The length of the cuboid is a square number between 10 and 20

Work out the surface area of the cuboid.

### Higher

4 circles are cut out of a square.



Estimate the percentage of the square that is shaded.