

## THEALE GREEN SCHOOL TRANSITION MATHEMATICS ACTIVITY

A very warm welcome to TGS from Theale Green Mathematics Department!

We hope you are excited to continue on your mathematics journey with us. For the first half-term, you will be in taught in tutor groups to give you time to settle in. In lessons, you will be given the opportunity to develop your problem-solving skills through study of the four key areas of mathematics: Number, Algebra, Geometry and Statistics. Our first topic looks at introducing you to the practical applications of Data Handling. If you want to be 'Secondary Ready', try this course: <https://www.numerise.com/secondary-ready/> - its free!



### MATHS CHALLENGES

Mathematics isn't all about numbers – it appears all around us in nature. **1) Can you figure out what connects the 5 pictures on the left?** (Hint: They relate to a very famous sequence). Can you find more examples of this type of sequence in your garden? Send us your photos!



#### 2) 24 Game

One of our favourite games to play is the 24 game. The aim of the game is to be the first person to make the number 24.

For each game you have 4 numbers, you have to use **ALL** four numbers. You can add, subtract, multiply and divide these to make 24.

**Example:**



Using the numbers: **2 2 6 8**

To make 24, I can do  $(8 - 2) \times (6 - 2)$

$$8 - 2 = 6 \quad 6 - 2 = 4 \quad 6 \times 4 = 24$$



**What level can you handle?**

Try to beat your parents/siblings to an answer

**Lemon & Herb**



**Medium**



**Hot**



**Extra Hot**



Please do email us your answers to your chosen challenge level and how long it took you to [transition@thealegreen.w-berks.sch.uk](mailto:transition@thealegreen.w-berks.sch.uk)



If you have enjoyed this, try the app version '24Game'



*Good luck!*