

# NewsRound



Keeping parents and students informed

Term 4 Letter 5 Friday 24 March 2017

## Paper Butterflies are FAB!

Eleven of our Ashcroft students were selected to attend the Annual FABulous book award on Tuesday which was held at the Wandsworth Professional Development Centre in Tooting. They joined six other local Secondary schools to hear the announcement of the Winner of the Best Teenage Fiction Book for 2017.

During an action packed morning each school made a presentation, championing one of the shortlisted books and Ashcroft wowed the audience with a spirited drama performance of their book, 'The Door to Where' by Sally Gardner, Four of the seven authors shortlisted were present on the day and the trophy was awarded to Brighton based author, Lisa Heathfield who was clearly moved by her win with the very popular book 'Paper Butterflies'.

Students returned to the Academy laden with books, autographs and pieces of the legendary FAB cake!



## Year 8 Pathway Choices



Please ensure you have completed and handed in your

Pathways form to Mr Arthur, Head of Year 8. There are a few students who have still not done this which could have an affect on their preferred subjects and being offered their second or third choices instead especially if a popular subject is over-subscribed.

## Year 9 Parents' Evening

this evening will take place after the Easter break on thursday 20 April from 6-8pm in the Auditorium.

Appointment cards have been issued to all Year 9 students who should begin to make appointments on your behalf with their subject teachers.

This evening will focus on their progress so far this academic year and any issues that need to be addressed. If you have other concerns that you feel would take more than 5-10 minutes to talk about please arrange an individual appointment with the staff member for another more convenient time.

## Art Praise

Ryley Fraser 9T4 has been praised by his Art teacher for his most recent task to use a photo of himself to draw from and then add colour using pastels. Another challenge posed was for him to complete his drawing using a grid method, a technique he had not used before) and found great results. Ms Petersen is incredibly impressed with his work.



## British Physics Olympiad 2017



AS Challenge : The AS Challenge is an exciting opportunity for students to stretch their lateral thinking skills and apply fundamental physical principles to novel situations. The AS Challenge is a single, one-hour paper

that provides an excellent tool to assess and challenge student's ability to work at Key Stage 5 and beyond.

GCSE Challenge : This is a single, one-hour paper that includes multiple-choice and short answer sections that aim to test students knowledge and understanding of basic physical principles. The fact that it is mostly geared to using and manipulating data from unfamiliar situations and not dependent on a GCSE spec is excellent.

Praise is given to the following students for their amazing achievement in these two challenges. The papers were particularly rigorous but we are pleased to say that we have had our best results to date.

Results:

AS Students: Marcus Ahmad 12IB1 - Gold  
Tom Moran 12T4 - Bronze 1  
Anna Durrant 12IB 2 - Bronze 2  
Teodora Veselinovic 12T7 - Bronze 2  
Ataul Hay Rana 12T7 - Bronze 2  
Syed Ali Raza 12 T3 - Bronze 2

GCSE Students: Oliver Evans - Gold  
Jaideep Grewall - Bronze 1  
Aya Hussein - Bronze 1  
Kafi Mubashera - Bronze 1  
Gregory Sharpe - Bronze 1  
Drew Coleman - Bronze 2  
Orla Lamb - Bronze 2  
Kim Trainor - Bronze 2  
Kane Tran - Bronze 2

**British Summer Time begins this weekend so remember to put forward your clocks by one hour just after midnight on Saturday**

# WEEK 5 MATHS CHALLENGES

## ARE YOU READY TO FOR THIS WEEK'S MATHS CHALLENGES?

Well done to everyone who solved the Week 3 challenges

The winners are:

KS3 problem: Abduwahab Moalin 7T7

KS4 problem: Omar Naviwala 11T4

KS5 problem: Marcus Ahmed 12IB1

Winners will be given their badges this week.

We are still accepting answers for Week 4's problems (until break time Monday 27 March) and the problems for Week 5 are here for you to start thinking about. Make sure you get involved! You have until after Easter to answer Week 5 problems so we are expecting loads of entries!

Here are the solutions to the Week 3 challenges.

KS3

## MATHS CHALLENGE



Q1

If two typists can type two pages in two minutes...

...how many typists will it take to type eighteen pages in six minutes?



Use the **green** slips to submit your solutions in the post-box in the Maths corridor by Tuesday 18<sup>th</sup> April (break time).

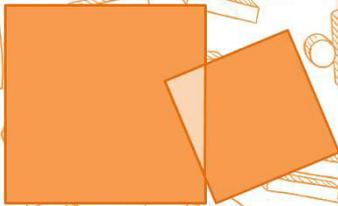
KS4

## MATHS CHALLENGE



Q1

Squares with edges of 2cm and 3cm overlap as shown



What is the difference between the areas of the two darker orange parts?

Use the **orange** slips to submit your solutions in the post-box in the Maths corridor by Tuesday 18<sup>th</sup> April (break time).

KS5

## MATHS CHALLENGE



Q1

What is the first **square** number in the sequence:

1, 11, 111, 1111, ...?

$1^2 = 1 \times 1 = 1$
$2^2 = 2 \times 2 = 4$
$3^2 = 3 \times 3 = 9$
$4^2 = 4 \times 4 = 16$
$5^2 = 5 \times 5 = 25$
$6^2 = 6 \times 6 = 36$
$7^2 = 7 \times 7 = 49$
$8^2 = 8 \times 8 = 64$
$9^2 = 9 \times 9 = 81$
$10^2 = 10 \times 10 = 100$
$11^2 = 11 \times 11 = 121$
$12^2 = 12 \times 12 = 144$

Are there any more square numbers in the sequence?

Use the **red** slips to submit your solutions in the post-box in the Maths corridor by Tuesday 18<sup>th</sup> April (break time).

KS3

## WEEK 3 SOLUTIONS



Q1 The numbers are 1, 1, 3, 5, 10

The **median** of these numbers is 3, so the middle number must be 3.

The **mode** of these numbers is 1, so there must be two 1s as we already know the middle number (out of five) is 3.

The **range** of these numbers is 9, and the lowest number must be 1 (since the first two numbers are 1), so the largest number is 10.

The **mean** of these numbers is 4, so the total is 20. Subtracting 1, 1, 3 and 10 leaves us with 5.



KS4

## WEEK 3 SOLUTIONS



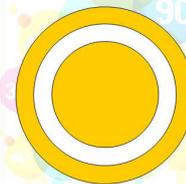
Q1 The area of a circle is  $\pi r^2$

The white area is  $\pi(4^2 - 3^2)$

So the fraction is:  $\frac{\pi(4^2 - 3^2)}{\pi \times 5^2}$

Which simplifies to:  $\frac{7}{25}$

Which is: **28%**



KS5

## WEEK 3 SOLUTIONS



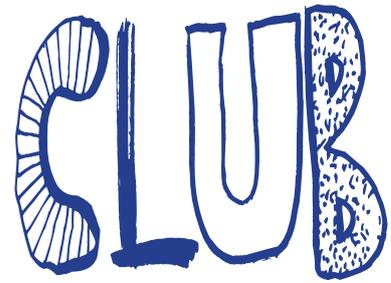
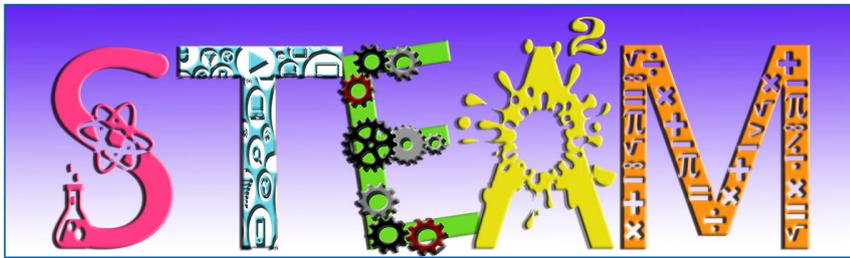
Q1 Let the three numbers be  $n, n + 1, n(n + 1)$

Squaring and adding gives:

$$\begin{aligned} n^2 + (n + 1)^2 + n^2(n + 1)^2 &= n^2 + n^2 + 2n + 1 + n^4 + 2n^3 + n^2 \\ &= n^4 + 2n^3 + 3n^2 + 2n + 1 \\ &= (n^2 + n + 1)^2 \end{aligned}$$

which is an integer since  $n$  is a integer

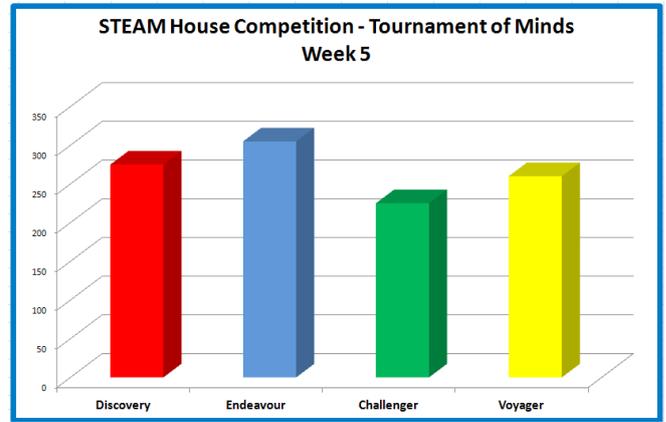
As  $n^2 + n + 1 = n(n + 1) + 1$ , the largest number will always be one more than the product of the two smallest numbers in sets of numbers such as these.



### Tournament of Minds - STEAM House Competition

Tournament of Minds is coming to an end and there is only one more week left, when the grand finale presentations will take place in front of our guest judge, Assistant Principal Mr Roberts. The STEAM-ToM teams have almost completed their product development. Some teams have even re-evaluated and restarted their design too - such is the enthusiasm and determination.

As the pressure builds up, the teams are uniting in their efforts and planning their final presentations. This week's 50 bonus House Points were awarded to Endeavour House, placing them in the current lead. Which STEAM team will have the winning design? It's nail biting, indeed!



### STEAM Cooking:

In Ms Niklekaj's Cooking Club, the Year 9 STEAMmies made banana cake. The STEAMmies really enjoyed the preparation time: mashing bananas, cracking the eggs and mixing the rest of the ingredients together. They all worked as team to clean and put the cooking equipment away. And of course at the end of the day it was time to taste their cake. It was deliciously made and impressed the staff who got to taste them too.

### STEAM Design:

In Mrs Aldred-Hall's Textiles Rocket Club, the Year 7 STEAMmies have an extra challenge of learning new skills to stitch in their LED circuit but all are making good progress with two students completing their circuits this week!

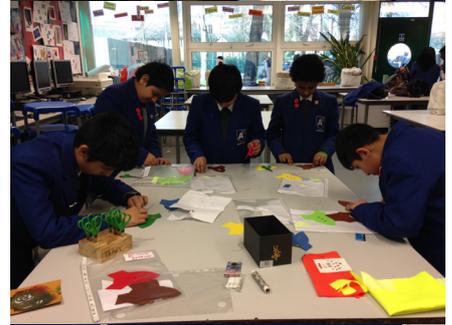
In Mr Morrissey's Rocket Car Club, the Year 7 STEAMmies had a very productive session this week. They used abrasive paper to make their designs as aerodynamic as possible before adding the wheels to the cars. Some STEAMmies even found time to give their cars a cool name. All of the group completed their work and are looking forward to testing them out with the help of the Army at 3.15pm on Monday 27 March 2017 in the cage behind F block.

### STEAM Language:

In Mr Revelant's Maths of Language Club, the Year 9 Steamies challenged themselves with Caesar codes and investigated the nature and use of codes throughout the ages: what they are, and how they have affected (and possibly even determined!) the course of history and human development. Boys competed against girls to crack two quite complex Caesar codes and will battle it out during the final next week. Who will win the prestigious prize for amazing Linguists?

### STEAM Science:

In Mr Mensah's Explaining Mysteries with Science Club, Year 8 STEAMmies had another exciting steam session, looking at how electrons deflect in a magnetic field to model Northern lights and explain the movement of the beam of different coloured lights during northern lights as a result of the magnetic field created.



# Short Story Competition 2017

**Deadline: Wednesday 29<sup>th</sup> March**

Email Entries: [shortstory@ashcroftacademy.org.uk](mailto:shortstory@ashcroftacademy.org.uk) or hand to Mr Collins / Miss Di Bartolo

## Discursive

Any non-fiction theme/topic  
600 words  
10 points per entry  
200 points for winner



## Short Story



## Children's (KS3-4)

Aimed at primary school students (Reception-Y6, you decide which!)  
350 words  
10 points per entry  
200 points for winner



## Short Story: KS3/KS4

Any theme/topic  
600 words  
10 points per entry.  
200 points for winner



The winners will be published and coached to enter the Wimbledon Book Festival's Young Writers Competition!

## Illustrated (K3-4)

24 panel limit.  
10 points per entry.  
200 points for winner



# 6<sup>th</sup> Form Inter-House Badminton

1<sup>st</sup> place: **CHALLENGER** – Billal and Sarfraz – 200 points

2<sup>nd</sup> place: **VOYAGER** – Marcus and Aatul – 150 points

3<sup>rd</sup> place: **ENDEAVOUR** – Hassan and Daniyah – 100 points

4<sup>th</sup> place: **CHALLENGER** – Syed Ali and Josh – 50 points



# Y7 vs Y8 Times Table Tournament

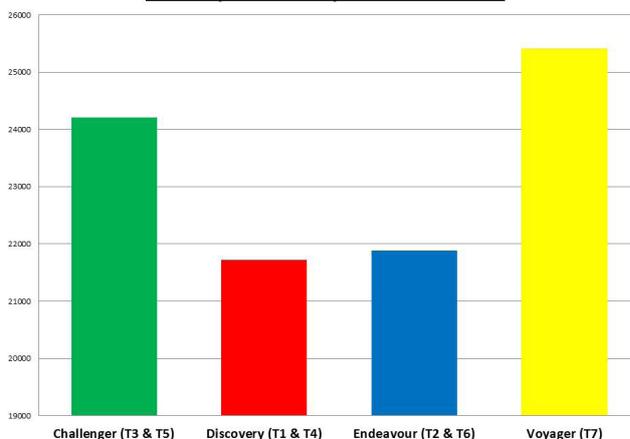
1<sup>st</sup> place: **CHALLENGER** – Reuben Butcher Campbell – 300 points

2<sup>nd</sup> place: **CHALLENGER** – Safeer Mirza – 200 points

3<sup>rd</sup> place: **DISCOVERY** – Umair Ahmad – 100 points



# House points competition - overall



	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1	Chicken Jalfrezi Vegetable Moussaka	Sausages and Mash Vegetable Quiche	Pasta Bolognese with Garlic Bread Vegetable Chilli	Roast Chicken and Roast Potatoes Vegetable Shepherd's Pie	Fish Cake with Potato Wedges Macaroni Cheese
	Pasta King Jacket Potato	Stone Baked Pizza Jacket Potato	Chicken Joe's Wrap Jacket Potato	Pasta King Jacket Potato	Chicken Joe's Wrap Jacket Potato
	Sweetcorn and Carrots	Green Beans and Peas	Broccoli and Macedoine	Carrots and Cabbage	Salad and Peas/Sweetcorn
2	Carrot and Coriander Soup	Vegetable and Watercress Soup	Minestrone Soup	Lentil Soup	Vegetable Soup
3	Salad Bar (small bowl with multi choice)	Salad Bar (small bowl with multi choice)			
4	Any sandwich (max price £1.50)	Any sandwich (max price £1.50)			
5	Oaty Apple Crumble and Custard	Marble Sponge with Chocolate Sauce	Jam & Coconut Sponge and Custard	Pineapple Upside Down Sponge with Custard	Eve's Pudding and Custard
	Fresh Fruit Selection of small cold Desserts Selection of Cakes and Biscuits	Fresh Fruit Selection of small cold Desserts Selection of Cakes and Biscuits	Fresh Fruit Selection of small cold Desserts Selection of Cakes and Biscuits	Fresh Fruit Selection of small cold Desserts Selection of Cakes and Biscuits	Fresh Fruit Selection of Cakes and Biscuits

Multi-choice menu

## MEAL DEAL

Choose a hot meal from Option 1 plus something from Options 2 or 5

Choose a soup from Option 2 plus something from Options 3 or 4 or 5

Choose a sandwich from Option 4 plus something from Options 2 or 5

Choose the Salad Bar option plus something from Options 2 or 5

**DELI BAR**  
Freshly made to order each day

**Meal Deal (Option 1 + 2 or 5) £2.15 students/£2.36 staff Main Meal only £1.83 students/£2 staff**

## Lunch rota for next week

1st sitting Year 11/9 — 1.05

2nd sitting Year 10 — 1.15

3rd sitting Year 7 — 1.25

4th sitting Year 8 — 1.35