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Newsround



Ashcroft

26 January
2018

Sixth Form & Honours Programme Trip to Oxford University

The Sixth Form team took a group of Year 10, 11 and 12 students on an 'aspiration raising' trip to Oxford University on Friday last week. Students were immersed in university life for a day; experiencing lectures in Politics and Medicine, a guided tour of Oxford, a talk about the Oxbridge admissions process and enjoying lunch with undergraduate students in the dining hall at Jesus College. Students thoroughly enjoyed the day and came away feeling inspired and motivated to aim high and to explore further higher education possibilities at Oxford University.



PERFORMING ARTS DEPARTMENT



Ashcroft's Got Talent – tickets are selling fast!

Don't forget to get your tickets for AGT 2018 from Reprographics! All tickets cost 50p and the money raised will be donated to charity. Don't miss out on what promises to be an outstanding talent show with performers from years 7,8,9,10 and 11 taking part. The whole event will be hosted by 6th formers who will also provide the interval entertainment.



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Prize-giving



01

UKMT Maths Challenge

Private Music Tuition Service - spaces available for after half term!

We currently have spaces available for lessons with all of our private music teachers through our Private Music Tuition Service. Our team currently teaches: piano, violin, cello, acoustic guitar, electric guitar, bass guitar, drum kit, flute, clarinet, saxophone and voice.

Applications are received on a first come, first serve basis and must be received before the half term break if you would like your child to start lessons in Term 4a.

Application forms are available on the Academy website.

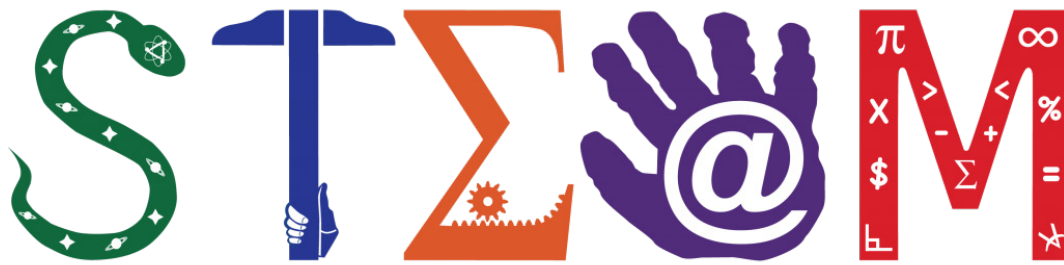
Private Music Tuition Service - Terms of Payment

If your child has lessons with one of our private instrumental tutors, please take note that payment must be received

before the lessons begin, and if you have not paid before the start of the lessons, the instrument tutor can refuse to teach your child. Swift payment of invoices helps the Private Music Tuition Service to run smoothly, thank you for your co-operation.



Year 9 Immunisations will take place this year on 20 February. Students were given their permission forms on Monday, can you please ensure they are completed and returned as soon as possible. I would also like to remind parents and guardians that if their child needs to take medication in school they need to fill in the Permission to Administer Medication form that can be found on the school website in the policies section - **Ms L Shadbolt**



The latest STEAM news below and what a STEAM-tastic week it's been at ATA!

geologist in the making - Raffaele Aiello, 8T6 . He was able to answer so many questions and asked very interesting questions.

STEAM

Science Technology Engineering Art Math

Tuesday Lunch-Times 1:05-1:35pm

Year Group	Project Rotation	Teacher	Room
7	The Robots Are Coming!	Mr Haddleton	E310
8	Geology Club	Miss Niklekaj	E311
9	Tournament of Minds - Annual STEAM House Competition	Miss Dowson & Ms Khan	E301
10 & Sixth Form	STEAM Academia	Various STEAM teachers	C210

Each project rotation will be for 4 weeks and you will then switch.
Please see Ms Khan in Science to collect your STEAM lunch passes!

The Robots are Coming! - with Mr Haddleton. This week, the STEAMmies continued learning how to program the robots in teams. The 2 teams from last week swapped robots and tasks. Team 1 had the Jumpin' Max robot and were asked to write a program to make it draw geometric shapes on the floor. Several programs were planned on paper first and then tested successfully using the robot. Team 2 were asked to program Travis the drone to make it fly the length of the classroom and land accurately on a landing pad on the floor. Again they split into 2 sub-teams - the pilots and the air traffic controllers! - This week 2 of the pilots were 100% accurate on their landings, scoring perfect points. Well done to pilots Edward Delo 7T4 and Tino D'Ancona 7T4 - another great excuse to celebrate by taking a "Dronesie" photo! Next week more competitive programming tasks are coming their way!



Geology Club - with Ms Niklekaj. The STEAMmies looked at the types of rocks: igneous, metamorphic and sedimentary, how are they formed, how they differ within the group and how they differ from each other.

The STEAMmies showed a lot of interest asking so many questions and we may have a young



**STEAM Annual House Competition
Tournament of Minds (ToM) 2018**

Are you ready to take on the challenge? Competition open to STEAM and non-STEAM students. Deadline for Year 9 entries is Tuesday, 20th January 2018. See Ms Khan/Ms Dowson to enter.

With human missions to Mars looking more and more likely, this year's STEAM ToM challenge scenario is to design and create a shoe for an astronaut to wear on Mars.

- 1st place - 300 house points
- 2nd place - 200 house points
- 3rd place - 100 house points

Special prizes and certificates will be awarded too!

Further information will be released in the STEAM Tuesday sessions.

Tournament of Minds (ToM) - with Ms Dowson and Ms Khan. ToM had another successful week with the STEAMmies being extremely organised. They are now in their final preparations for their presentations next week. Some are frantically trying to pull their plans together whilst others are disagreeing on colour schemes. We can't wait to see what their hard work produces!

STEAM Academia & Sixth Form STEAM Ambassadors Programme

- This week's session included a talk from Mr Sellars, Math Teacher, about his previous career as a Telecommunications Project Manager and how STEAM subjects have been part of his life in both education and work prior to becoming a teacher. The STEAM Academics



looked at some key companies Mr Sellars worked with and the type of large scale projects he delivered. They then completed a task that they discovered was part of Graph Theory, a Further Maths/Degree level Maths option. They learnt how the Maths involved in the task could help economise delivery of a project and related the findings, based on positioning fire detectors in odd shaped buildings, to that of positioning wireless network routers throughout a large, multi-floored office building. They then saw how it is possible to generalisation a relationship so that you can apply the findings to any situation - a critical part of Maths that is very applicable to real world situations. Thank you, Mr Sellars and well done to our wonderful STEAM Academics!



KS3 MATHS BOX CHALLENGE

In a magic hexagram, the numbers in every line of four circles have the same total. The diagram shows a magic hexagram which uses twelve different prime numbers.

Five numbers are shown, including the smallest and largest of twelve primes.

Q1 Find the value of p , explaining the steps in your reasoning

Use the green slips to submit your solutions in the post-box in the Maths corridor by Friday 2nd of February (break time).

KS4 MATHS BOX CHALLENGE

The diagram below is to be completed so that:

- Each box contains a positive integer;
- The total of the numbers in the thirteen boxes is 2005; and
- The sum of the numbers in any three consecutive boxes is always the same.

Q1 In how many different ways is it possible to complete the diagram?

Use the orange slips to submit your solutions in the post-box in the Maths corridor by Friday 2nd of February (break time).

KS5 MATHS BOX CHALLENGE

The diagram below shows two equilateral triangles. The angles that are marked x° are equal.

Q1 Prove that $x > 30$

Use the red slips to submit your solutions in the post-box in the Maths corridor by Friday 2nd of February (break time).

Maths Box Challenge



	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	Multi-choice menu
1	Chicken & Vegetable Pie with New Potatoes Vegetable Quesadilla	Tuna Lasagne Spicy Rolled Chickpea Gyros	Chicken Fajita Macaroni Cheese	Roast Pork and Roast Potatoes Vegetable Pie	Fish and Chips Goats Cheese Tart	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
	Chicken Joe's Wrap Jacket Potato	Pasta King Jacket Potato	Pizza Jacket Potato	Pasta King Jacket Potato	Chicken Joe's Wrap Jacket Potato	
	Green Beans and Macedoine	Baby Carrots and Salad	Peas and Sweetcorn	Carrots and Cabbage	Salad and Peas	
2	Carrot and Lentil Soup	Vegetable Soup	Tomato and Basil Soup	Spicy Bean Soup	Leek and Potato Soup	
3	Salad Bar (small bowl with multi choice)	Salad Bar (small bowl with multi choice)	Salad Bar (small bowl with multi choice)	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)	Any sandwich (max price £1.50)	Any sandwich (max price £1.50)	Any sandwich (max price £1.50)	
5	Fruit Crumble and Cream	Banana Bread and Custard	Chocolate/Strawberry Mousse with Shortbread Biscuit	Chocolate and Orange Cake with Chocolate Sauce	Selection of Cold Desserts	DELI BAR Freshly made to order each day
	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	

4 Meal Deal (Option 1 + 2 or 5) £2.25 students/£2.47 staff Main Meal only £1.95 students/£2.15 staff