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BRADFORD GIRLS' GRAMMAR SCHOOL

Co-educational up to 11, Girls only 11-16

BGGGS Science Newsletter

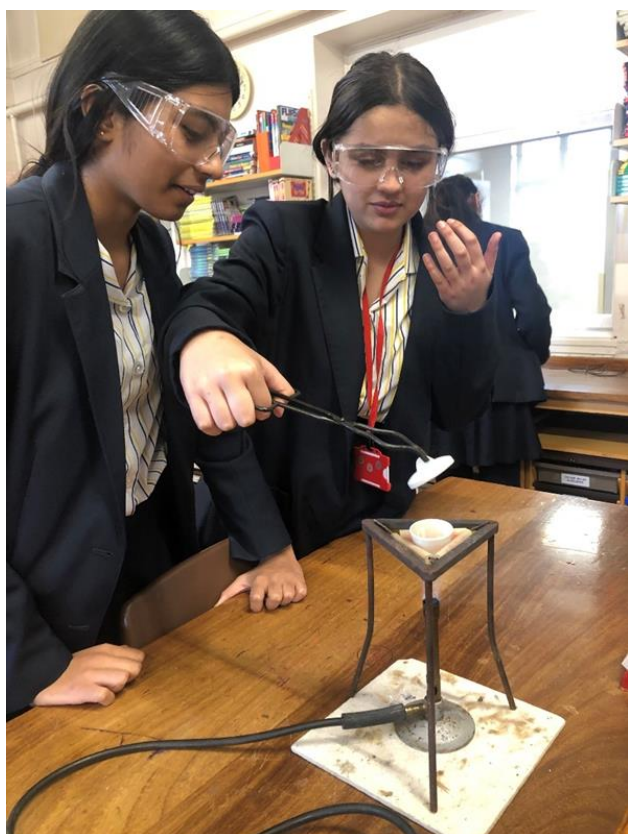
Hello and Welcome

Welcome to our new Science Newsletter. We aim to update you with all the amazing and interesting activities and learning covered in Science this term.

Atoms and Elements

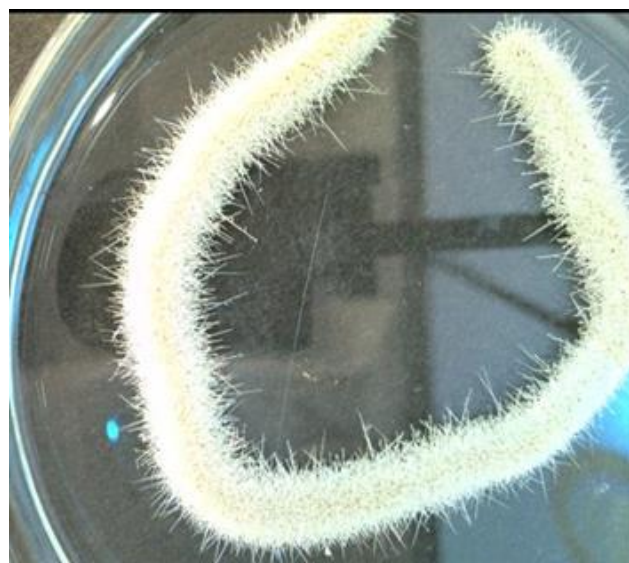
Year 8 students have been working through the matter topic. Learning about atoms and elements and how atoms rearrange themselves during chemical reactions.

Here we can see students Arisha and Aisha investigating the principle of the conservation of mass.



Metallic Bonding

As part of the introduction to metallic bonding, some Year 10 students grew metal crystals. They put some copper wire in a silver nitrate solution. The copper displaced the silver from the solution so that it formed solid silver. In the picture you can see the needles of silver metal showing that metals are crystalline solids.



STEM CLUB

This academic year has seen the return of our school STEM club! Our club is made up of around 12 Year 9 students (supported by Ms Watson), all of which are interesting in engaging with the wider aspects of the STEM subject's science, technology, engineering, and maths. These students will become our STEM ambassadors for the school community, working on projects, carrying out research and implementing new ideas.

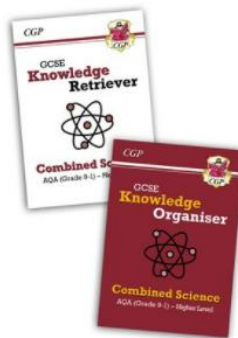
Our current project involves the club teaming up with Mrs Holmes and her keen KS4 Geography students to try and gain Eco-school status for our community. This project aims at putting young people at the heart of environmental issues and actions. It engages, empowers, and motivates young people to care for our planet now and throughout their lifetimes.



Transport Mechanisms within Organisms

This term Year 9 students have been learning all about the various transport mechanisms within organisms. This involved completing a practical investigating the effect of surface area to volume ratio on the rate of diffusion. Students have to be very cautious with their control variables in this investigation and spent a lot of time planning out a detailed method!

Here we can see students Laura and Amaara working hard on calculating ratios to inform their predictions.



Year 11 Examination Support

As part of their commitment in supporting students prepare for their upcoming examinations, the department has funded access for ALL Year 11 students to a fantastic online resource called my-gcse-science. The resource can be accessed via the following link: [My GCSE Science](https://www.my-gcse-science.com)

Students have been emailed their log-in details along with a user guide. This user guide has also been included with this newsletter for information.

The website has online lessons for each section of the specification along with multiple choice questions which automatically mark to provide instant feedback, and some exam practice questions and associated mark schemes for students to use to practice their application of the content.

ALL students have also been provided with a knowledge organiser and knowledge retriever book, secured as part of the school catch-up support package, for use in securing their science subject knowledge and preparation for examinations.

Each term the science department will be naming 2 students from each year group as 'stars of the term'. These are students who demonstrate the school ASPIRE values consistently in their science lessons. The stars for this term can be seen below:

Year 7: Charmaine-Brooke Antonio (7B) and Olivia Abbas (7N)

Year 8: Iman Bibi (8B) and Shaila Naveed (8T)

Year 9: Aysha Javed (9T) and Amarah Aziz (9N)

Year 10: Aleena Nazir (10C) and Ramesa Hussain (10T)

Year 11: Safah Aftab (11C) and Imaan Ahmed (11N)

A huge congratulations to these students! Each student will receive a £10 amazon voucher as a reward.

