



**SIR THOMAS  
BOUGHEY  
ACADEMY**

# News Bulletin

21<sup>st</sup> March 2022

## Ukraine Appeal

A Parent has contacted the school and has asked if we will help to gather donations for Ukraine.

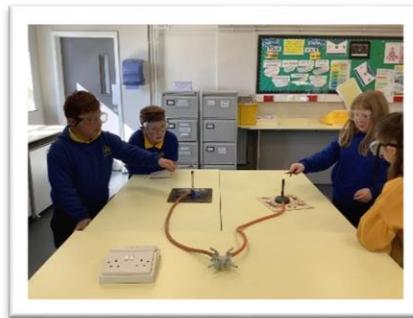
The types of items requested for donations include bedding, blankets, batteries, sleeping bags, candles, matches, torches, first aid kits, shoes, nappies, baby wipes, new and nearly new baby clothes, thermal clothing, bandages, paracetamol, toiletries and pet food.

Please can any donations be dropped into reception by midday on Monday 28<sup>th</sup> March.

Thank you in advance for your support.

## Transition Leadership

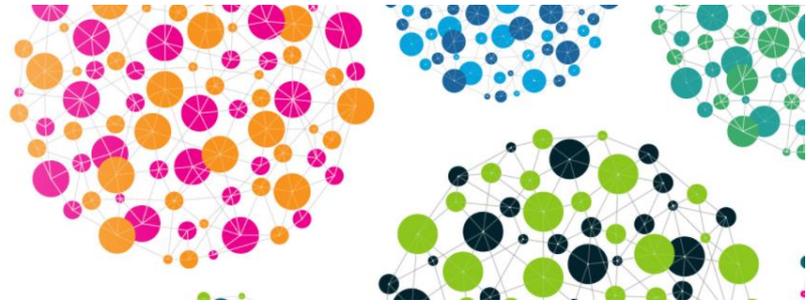
It was fantastic to be able to welcome Year 4 students from Ravensmead on Thursday and Friday of this week for some science experiments. Based up in Miss Slaney's lab, students used Bunsen burners to investigate how different materials react to the heat. Here's to the next generation of brilliant scientists!



## Science Faculty

In Year 7 we have been celebrating British Science Week by taking part in a nationwide venture to investigate the theme of 'Growth' with links to technology, engineering and maths.

11-20 March  
British  
Science  
Week  
2022



Our Year 7s have discussed the problems faced by Climate Change and Global Warming and the challenges presented of trying to reduce our carbon footprint. In response to the need to grow more food in more adverse weather conditions, pupils have been building their own simple hydroponic system.



It involved using an old plastic drinks bottle, cutting it in half and inserting rolled up kitchen towel or cotton wool through a small hole in the inverted top. Water was added to the bottom half of the bottle to act as the reservoir and seeds were added to the damp top half. Pupils will be keeping a close eye on their creations over the next weeks to monitor growth, analyse their findings and evaluate their hydroponic system.



Each Year 7 class has visited our very own garden to see our main hydroponics system. As Spring is now getting underway, we hope to transplant some of the successes from indoors to outdoors and even try our hand at growing some STBA vegetables!



Mrs Goodwin runs the Wild Garden Club for Years 7 and 8. It is thanks to the time and hard work from these pupils, staff (and very generous donations from Emerys Builders Merchants) that the garden now boasts a wonderful environment for our pupils to learn about nature, the environment and self sufficiency. Each session generates a sense of pride in their accomplishments and satisfaction in their achievements.



A number of our Year 10s, supported by Mr Qayyum have accepted KMF's challenge to find the 'Young Engineer of the Year 2022'. The Science, Technology, Engineering and Maths competition is supported by 20 sponsors and nineteen schools in north Staffordshire are taking part. The task is to use cutting-edge high altitude balloon technology to design, engineer and launch their creation into space, track it's journey and visually record the whole progress by presenting a video of the whole project and its flight.

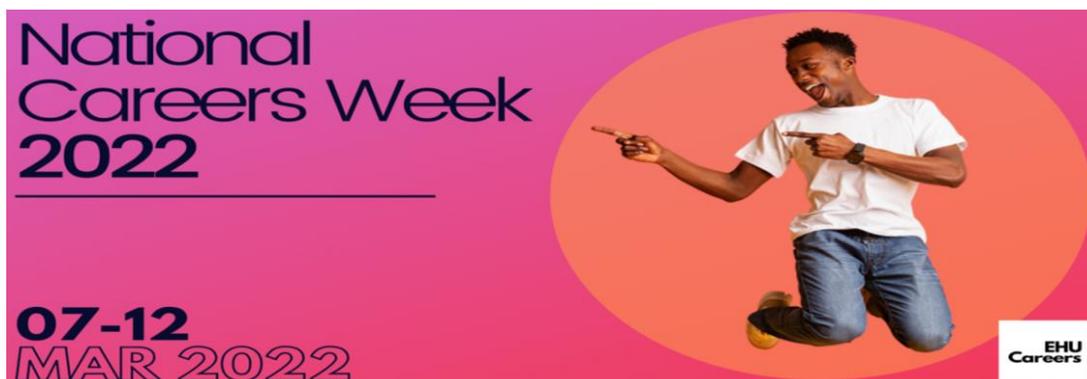


Team 'Power' have already attended a workshop at Newcastle under Lyme College in November, but only this week attended a Science Experience Day at Staffordshire University. During the day, pupils took part in a number of small sessions which included:

1. Reasons why we are trying to send objects into the space and the barriers
2. Difference in career paths (space biology/astrobiology/astrophysics etc)
  3. The mathematics behind sending objects into space
  4. How to make a movie of the journey of our project
5. Most effective ways of using the equipment provided by KMF



Their 'launch into space' missions are due to blast off into space in May. We then eagerly await news of which team flew the highest, created the most stunning images and videos, transmitted the clearest signal back to Earth and who ultimately is the KMF Young Engineer of the Year 2022 in July.



During National Careers week, we used the occasion to continue to discuss career options with our pupils which are linked to Science. It is vital to begin to sow the seeds of opportunity early in order open their eyes to the world of work around them and to encourage, motivate and raise aspirations.

For example in Year 8, pupils are studying the topic Reactions. We have discussed the possibilities of becoming a Pharmacist, Chemical Engineer and Forensic Scientist to name a few. For each career pupils have researched what is involved and the journey needed to get there.

In Year 9 Physics, pupils have been learning about Energy Resources. We have discussed the impact of burning fossil fuels and the need to become less reliant upon them. We have looked at careers in electric vehicles, nuclear power and renewable energy resources.

Similarly in Year 10 Physics, pupils have been studying Radioactivity. To become a Radiographer is a profession not well known, but forms such a vital part of diagnostic and therapeutic medicine within hospitals. This has been matched by Biology lessons where careers in medicine and health are regularly discussed.

Our Year 11 are now concentrating all efforts on the Summer exams and are very nearly ready to embark on their next exciting chapter.