



NEWSLETTER

Friday 19th April 2023

Headteacher Message

Dear Parent/Carers

I hope this message finds you well and fully refreshed after the Easter break.

It has been a pleasure to welcome our pupils and staff back to school after the holiday, ready for the summer term. We have launched our first 'Standard of the Week' and pupils have responded extremely well.

I would like to extend my gratitude to our dedicated staff who went above and beyond during the holiday to support our Year 11 pupils with their GCSE preparations. Well done to all the pupils who attended these sessions. I would also like to thank the staff who supported our pupils on their Duke of Edinburgh Bronze expedition.

As we embark on the final stretch of the academic year, it is essential our determination remains unwavering. With GCSE examinations just around the corner, our Year 11 pupils are preparing for this significant milestone in their educational journey. I encourage them to continue putting in the effort and staying focused on their goals. Remember, your hard work will pay off and that there is plenty of support, advice and guidance available to you from staff.

Beyond the exams, we have plenty to look forward to during the Summer term. From sporting events and extracurricular activities to end-of-year celebrations and awards ceremonies, there is something for everyone to enjoy. We must make the most of these opportunities and celebrate our achievements together as a school community.

As always, please do not hesitate to contact us if you have any questions, concerns, or if there is anything we can do to support you or your child.

Wishing you all a successful and fulfilling term ahead!

With warm regards,

V. Gowan

Miss V. Gowan
Headteacher



Victoria Gowan
Headteacher



This week's numeracy puzzle

Fruit puzzle

$$\text{Grapes} + \text{Grapes} + \text{Grapes} + \text{Grapes} = 1000$$

$$\text{Watermelon} + \text{Grapes} + \text{Grapes} = 500$$

$$\text{Banana} + \text{Watermelon} + \text{Grapes} = 500$$

$$\text{Grapes} + \text{Banana} - \text{Grapes} \times \text{Watermelon} = ?$$



Mrs Ferns
Head of
Department



Mr Blake
Deputy
Leader of
Technology



Mrs Hampson
Assistant
Headteacher
Pastoral KS3



Miss Brown
Classroom
Teacher/
Whole school
Rewards



Mrs Blackmore
Head of
Year 10



Mr Fearon
Technician



Mr Smith
Design
Technology
Teacher

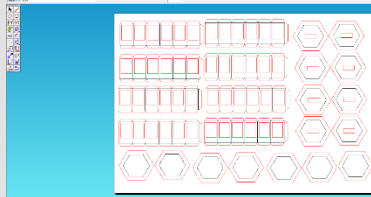
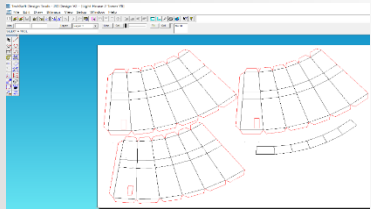
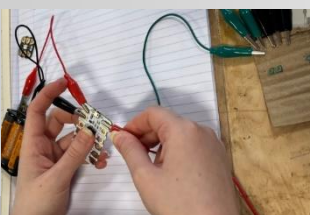
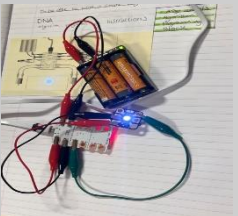
In this technology newsletter, the department would like to showcase the role of our Design & Technology Technician.

Supporting KS3 Curriculum

Pupils in Year 8 and 9 have had an introduction to Control Technology using Crumble Computer Control Kits this year.

Mr Fearon supported by preparing CAD drawings of net diagrams of a lighthouse for pupils to use with their Crumble Control Technology kits.

Also, police net models for pupils to employ sparkle LED outputs modelling light out sequences.



Traffic Lights

Lesson Plan
Traffic
Sparkies

Aims
 Through this activity students will learn to use sparkies. They should be able to make them flash in sequence. As they progress there are several variations and ways to make a more challenging by adding switches (see bottom of page).

<p>Basic Code To make a sequence flash in a traffic light sequence</p>	<p>Resources</p> <ul style="list-style-type: none"> Crumble board Sparkies x 3/5 Button Panel Wires x 11/17/19 Switch (intermediate) Paper / card 	<p>Construction Tips Use paper and card to construct a simple standing traffic light display. Stick the sparkies/switch on the front of the card and push through holes for the wires to secure them up paper. You can cut out card with holes in to cover them.</p>
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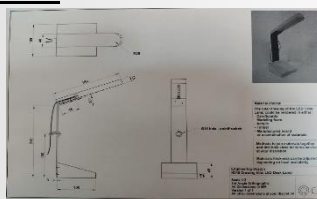
Suggested Uses
 To make the coding of the traffic lights with road safety - how many types of traffic light are there? How do we know when it is safe to cross?

Challenge Questions
 Can you change the sequence to reflect different types of traffic light/pedestrian crossing - for example pedestrian/puffin?

<p>Basic Code To make the lights flash in a different sequence (all one used as in the video)</p>	<p>Intermediate Code To make the traffic lights come on when a switch is pressed after a certain amount of time</p>	<p>Intermediate Code To receive 2 quantities as the pedestrian lights and incorporate the sequence with switch</p>
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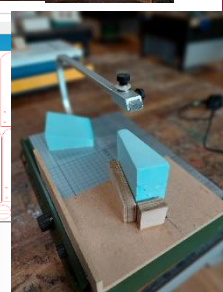
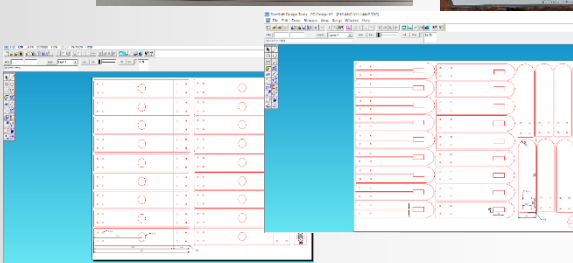
KS4 Engineering Design and Making of Lamp Project Task

This is OCR's Engineering task for our KS4 pupils. The orthographic drawing gives all the measurements that the lamp has to be manufactured to. As the Technician, Mr Fearon supported in the production of all components which would be required to build the desk lamp.



Manufacturing of Lamp Components

Bespoke Jigs had to be designed and manufactured to aid the batch manufacture of the foam block bases for the lamps and the acrylic stem of the lamps. Pupils had to be carefully supervised while using the Hot Wire machine and Strip Heater so no burns would occur when operating the machines.



Supervision of soldering of output components

Soldering stations were set up for pupils and a brief demonstration of how to solder accurately and safely. Pupils were instructed on health and safety while soldering and supervised while carrying out their soldering task.

This section of practical skills was in addition to the examination board requirements. It made a lot of sense of the model, making it a working prototype. It also enhanced the pupils' experience by learning new skills in a safe way. Pupils were carefully supervised while soldering and given individual instruction where and when required.

Photograph of assembled Lamp Project

Improving learning environments

Assisting the teaching staff to improve their learning environments is a core part of a technician's role. A series of bespoke storage rack systems were designed and manufactured. These storage systems have a number of simple roles. Staff can see at a glance if tools are missing or in need of repair or resetting.

It also means the teacher has a cleaner environment to work in, the pupils appreciate this too. Tools can be stored away in a safe manner and retrieved with ease by teachers or pupils alike. The photos below show a range of storage systems which allow for a safer working environment.



Careers



Springpod University Experience Programmes and Virtual Work Experience Opportunities

What is Springpod?

Springpod is an online career and university exploration platform.

They connect students to world-leading employers and universities through online programmes. Through **free** virtual experiences, young people can gain the experience, knowledge, and the skills they need to take their next steps. Upon completion of a programme students will receive a certificate to reference on their CV and/or Personal Statement.

How do pupils get started?

All pupils need to do is create a free account and click 'start now' to access the programme. Pupils can come back to the programme via their dashboard and complete it at a later date when it suits them.

We want to help our pupils join the 500,000+ others learning from experts at the University of Oxford, Durham University, The University of Birmingham and many more top universities.

These short university experience courses take around an hour to complete, can be started any time, and include video content and activities for students to work through.

This is a fantastic, free resource. If you would like further information on the Springpod University Experience Programmes, visit <https://www.springpod.com/>

There are also a number of opportunities to complete virtual Work Experience by visiting: <https://www.springpod.com/virtual-work-experience/search>

Year 11 extra study

Year 11 extra study sessions for Technology subjects take place on Wednesday after school. All Food & Nutrition, Design & Technology, Child Development, Engineering, Hair & Beauty, and Health & Social Care pupils are encouraged to attend.