

# Heckler

Week 23 Published 18/03/2022



HECKMONDWIKE  
GRAMMAR SCHOOL

## Take it Away...

Last Wednesday saw our first Rock & Pop evening with music provided by the members of the HGS Rock & Pop Club.

Three bands took the stage that included a mixture of students from year 7 right up to 6th form. The bands were called - 'Floor Candy', 'Poppin Rockin' and 'Six Feet Under'. Each band played a couple of songs each including Hold the Line, Seven Nation Army and Rolling in the Deep.

The bands performed in front of a very appreciative audience who provided whoops, cheers and even some occasional headbanging!

There was a Charity collection on the way out for the Happy Days Uk Charity, providing support and housing for the homeless - you will hear more about next week.



All in all, a super first rock evening that will hopefully provide a basis for future rock & pop events.

**ROCK**  
&  
**POP**

...Pop Fans

# Subject Focus - Design Technology

## Project Focus A level Product Design Y12

The brief: Design and make a prototype of a sustainable light that will raise consumer awareness of global environmental issues.

- Product Design A level students from Year 12 have created lighting solutions for retail giant IKEA with sustainability as the key focus.
- The brief for students was to design and create a shop-ready product in line with the values and ethos of the company.
- Students have used low voltage LEDs to illuminate their products to help maximise the sustainability of their design ideas.
- As part of the project, each of the designs produced have a focus on raising consumer awareness of global environmental issues such as deforestation, global warming and rising sea levels.
- Our students have impressed us with their innovative and creative thinking which has led to the production of some very high quality final outcomes.

Kerim enjoyed building his craft technical skills using the wood lathe to turn the main structural stand for the lamp. His main inspiration was the environment, so using timbers was a natural starting point. The timbers did not just make the product look sustainable and eco-friendly, but made the lamp look aesthetically great once assembled and finished with a light coat of Danish oil.



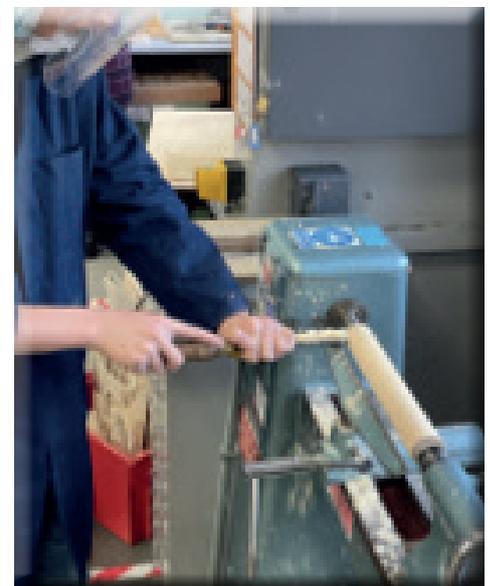
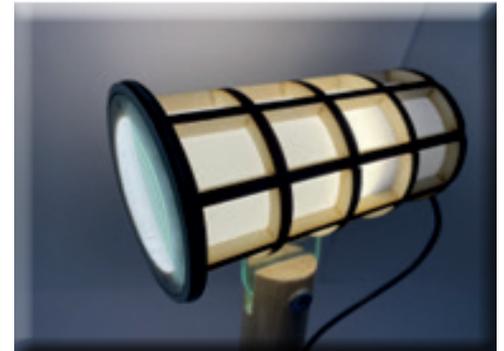
### The IKEA vision

"To create a better everyday life for the many people." This vision goes beyond home furnishing. We want to have a positive impact on the world – from the communities where we source our raw materials to the way our products help our customers live a more sustainable life at home.

By sharing what we do, and speaking up for what we believe in, we can be part of positive change in society.



The IKEA sustainability strategy – making a real difference



# Subject Focus - Design Technology continued

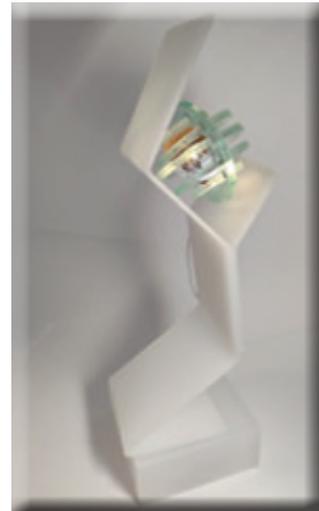


Ali Musa

son



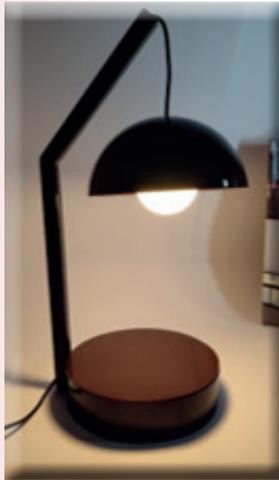
Caitlyn Hodgson



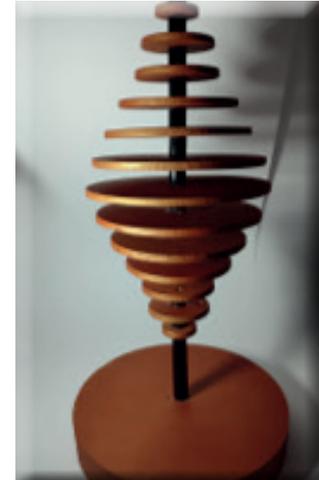
Benjamin Maxey



Ismaeel Karolia



Haaris Tofique



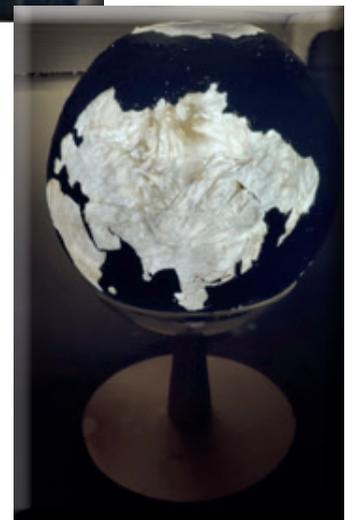
Leigha Blanchard



Sumeed Saleem



Lauren Fellows



# Ikea Lighting Project - Final Design - Lauren Fellows



## Design Iteration and product development

Benjamin created a lamp for the project based upon Atlas – the Greek titan who has the world upon his shoulders – with the light inside of the globe.

Initially, the structure was going to be cast using a foam mould (pictured top row), however it was a struggle to be able to carve it into the correct shape, so the methodology was changed to attempt to create the figure in a different form.

Benjamin then focused on trying to create the lamp from wood, but this also didn't work as an ornate structure was been made in a flat plane

Finally, the project was completed in acrylic in a more abstract form, leaving the final design (pictured bottom right).



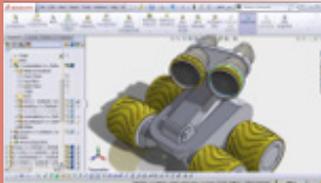
# Subject Focus - Design Technology continued

## The Key stage 3 journey

Year 8 homes will soon be filled with beautiful scents as students design and make premium home aroma products in Design Technology as part of their exploration into Graphic Design.



Students start their product design journey as soon as they arrive at Heckmondwike Grammar School in Year 7. There is a curriculum map plotting student learning, the reasons why and showing the stepping stone and milestone assessments that they will take along the way.



Year 7 Graphic Design begins with sketching and students will develop a knowledge of the key principles that govern several 2D and 3D sketching techniques. This knowledge can be used to self-assess students own progress as they build upon the muscle memory of sketching skills through rehearsal and practice.



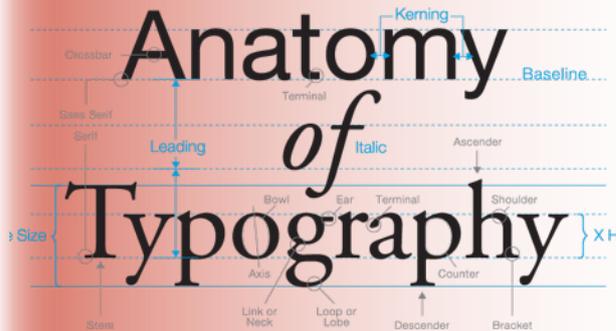
Students learn how to employ several techniques with efficacy (such as rotating the page to use the body's natural articulation when sketching lines, rehearsing lines before committing them to paper; warming up before drawing; etc.) to become better at sketching.

Once all the class has mastered hand drawing and sketching they move onto 3D computer aided design providing an opportunity to design using Solidworks CAD software. Students will become equipped with the knowledge and skills needed to construct their own CAD models by using a range of core modelling tools. The CAD project will help to develop spatial awareness and the ability to design 3D products which may then be 3D printed in school.

**Resistant materials study** in Year 7 aims to broaden student understanding of different timbers and their classifications learning how to identify and use a variety of manufacturing techniques, tools and processes that will enable them to design and make a product using timber, mild steel and acrylic polymer. The result is the Bird House to skewer an apple to attract small birds to the garden including Blue Tits, Robins and Martins

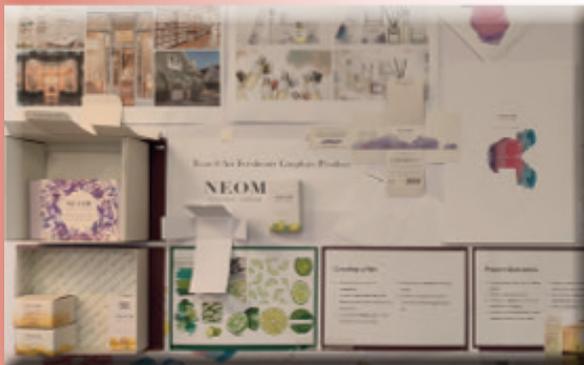


Year 8 gives learners six blocks of focused design and make projects starting with the Magazine project in Graphics where they learn that groups of typefaces can convey different meaning through form and that designers carefully select typefaces to attract specific audiences. Learning that magazine covers comprise of a range of carefully arranged elements that are designed to aesthetically enhance their appearance to persuade consumers to make a purchase.



Professional industry-standard software comes next the class is shown how to construct a grid system using Adobe Photoshop as a guide for arranging the elements of a magazine cover to provide visual order and hierarchy.

For those progressing to GCSE Product Design this supports them with an understanding of scales of production and printing techniques provides a foundation for in-depth graphics knowledge at GCSE level.



The Air Freshener project means that students will have a basic understanding of how scent can conjure different moods and emotions. Students will have an idea of the shape and form of car air-fresheners. New knowledge is about using empathy to understand the



needs of primary users and stakeholders will prepare students for KS4 based projects – particularly Design Ventura.

Rotating to resistant materials Design Technology students design and make a pinball game form manmade boards giving students the opportunity to use their sketching skills from Year 7 to produce a range of different design ideas for their obstacles This project has been designed to enable students to build upon their prior workshop experience as most students will have previously used; a tenon saw, a hand file, abrasive paper, a Hegner scroll saw, a Band facer, a Pillar



Drill, a metalwork bender, a buffer and polishing machine.

Next is the Target Toy design and make project which increases student awareness of user needs, type of motion, levers and forces. How to test, analyse and modify designs in response

to customer feedback to improve the product.



That completes the Design journey for students in Key stage 3 preparing them for GCSE progression for those opting for Design Technology Graphics or Resistant Materials.



# FUNNY IS POWER

Once again parents, students and staff at Heckmondwike Grammar school have shown how generous and altruistic they are.

It does seem we are constantly asking you all to donate and fundraise for various appeals but you always 'come up trumps'. Today we raised £1010.00 (and counting) for Comic Relief by hosting the non-uniform day and through the sale of cupcakes, which were once again very kindly donated by Mellors the school caterers



Alongside this fundraiser, HGS put out a plea for the DEC Ukraine appeal, asking parents to use the link provided, we have raised £804.90 so far!

It really is good to be part of such a caring community, thank you.



# Be Exam Ready

Studying and preparing is vital to success in exam

It is difficult to know how best to manage your preparation until you have some experience. There is no right or wrong formula to prepare it is down to the individual to work out which strategies, processes and techniques best suits their learning ethos. By trying different methods and by monitoring yourself it will be easy to find out which techniques are useful and will help to identify where there are still difficulties, doubts or motivation problems.

Over the coming weeks we will be sharing coping and revision strategies, links to revision techniques and tools, resources that will be useful to students in preparation for the summer exams.

## Phrontifugic Webinar

1 - The link below allows parents/students to register for a phrontifugic webinar from eedi family all about reducing anxiety and exam stress.

[https://us02web.zoom.us/webinar/register/WN\\_2IAGm\\_ALRxKGMcxnM7cQLQ](https://us02web.zoom.us/webinar/register/WN_2IAGm_ALRxKGMcxnM7cQLQ)

2 - Challenge - can you help get the word phrontifugic accepted as a word in collins dictionary?! Visit the link and use the word whenever you get a chance!

<https://www.collinsdictionary.com/submission/24530/Phrontifugic+>

## Subject Help



### Geography

#### GCSE

- Tutor2U GCSE Geography Revision Blast - <https://tinyurl.com/bd3setyj>
- Tutor2U Daily Revision Question on Instagram - <https://tinyurl.com/mustv6j7>
- Internet Geography Quizzes - <https://tinyurl.com/3hva52tb>

#### A Level

- Tutor2U A'Level Geography Revision Blast - <https://tinyurl.com/yckhxc7e>
- Coventry University Webinar Revision Series - <https://tinyurl.com/ycy5hn68>



### Business

#### GCSE - Edexcel

- Attempt past papers <https://qualifications.pearson.com/en/qualifications/edexcel-gcses/business->
- Seneca learning
- GCSE Bitesize
- Course companion (in teams)
- Assessment mats - knowledge questions that you can practice over time
- Create revision resources to test yourself and share with friends e.g. create a cross word to test definitions

#### A Level Business - AQA

- Attempt past papers <https://tinyurl.com/2p84exax>
- Seneca Learning
- Use the course companion (in teams)
- Use tutor2u
- Create revision resources you can test yourself with repeatedly over time
- Remember you need to have real world knowledge of businesses to apply

# Be Exam Ready



## Mathematics

KS3 - Use your exercise book to make a revision list of topics you have covered and new formulae that you have come across.

Part of your revision should be learning those new formulae by heart.

Most of your revision should be practising techniques and doing questions where you have access to the answers/worked solutions so that you can check them.

Good sources of materials are:

- your exercise book - the examples from class and your classwork where you have marked/annotated in green pen
- Hegarty <https://hegartymaths.com/login/learner>
- Drfrost [maths https://www.drfrstmaths.com/login.php](https://www.drfrstmaths.com/login.php)
- Corbett Maths <https://corbettmaths.com/>

KS4/5 - In addition to the above you need to make sure that you do further work practising exam style questions. We do AQA and you can find past exam paper questions here as well as model solutions.

- GCSE - <https://mathsmadeeasy.co.uk/gcse-maths-revision/aqa-gcse-maths-past-papers/>
- A level: <https://mathsmadeeasy.co.uk/a-level-maths-revision/aqa-past-papers/>

Past paper questions broken down by topic:

GCSE: <https://www.mathsgenie.co.uk/gcse.html>

A level: <https://www.mathsgenie.co.uk/newalevel.html>

Note these are Edexcel rather than Aqa but the model solutions and videos are particularly useful



## Economics

Here are some links to new resources designed to support A-Level Economists from Tutor2u.net

[Update on the UK Economy | Five Short Videos on the Key Stats](#)

This series of five short videos provides an overview of many of the key stats on the UK economy to help students add contextual application into their 2022 exam paper answers!

[Labour market economics - topical issues explained with diagrams](#)

In this new series of six short videos, we look at building labour demand and supply analysis to support answers on a range of topical labour market issues.

[Daily Economics revision on Instagram](#)

# Happy Days

HGS Happy Days  
UK Charity Sleepout  
24 March 2022



I am pleased to announce that our school has been approached by David Fawcett (pictured above) the CEO of Happy Days UK to take part in a unique charity event: the Big Dewsbury Sleepout Appeal. Local homeless charity Happy Days UK are doing a week of sleepouts to raise money and awareness about the issue of homelessness in our local area, David, himself is bedding down for 5 days and will be joining Team HGS. The team is going to spend Thursday 24 March sleeping out in our Middle Yard and we have decided it would be a difficult but meaningful challenge to join in. The event will involve 10 staff and 50 students supporting the appeal by experiencing what it would be like to be homeless themselves for a night. They will be sleeping outside with just a sleeping bag and a roll mat or cardboard. Alongside raising awareness, we aim to raise as much money as possible for the charity.

If you feel able, please support our efforts by donating via our local giving page:

<https://localgiving.org/fundraising/HGS-charity-sleep-out/>

All donations will go directly to the Happy Days UK charity and there will be a prize of £100 gift vouchers for the student who raises the most money for the charity. To track this, we ask donors to include the name of the student they wish to sponsor in the donation details. If you would like to support our school effort more generally, we welcome any message of support alongside the donation.

Mrs Hellewell

# Ukraine Appeal

A huge Thank You to everyone for the generosity shown with donation of dried food, cleaning products, medication, baby supplies etc we were overwhelmed. As a staff member is always amazes me just how generous the HGS family is.

The van arrived this morning and we have been informed that donations will be put on a huge transporter and depart for the Ukraine from mid to the end of next week.





Heckmondwike Grammar School's very own Eco-Committee is hosting a 2022 Green Week in school, the week commencing the 28th March and running until Tuesday 5 April.

We think that it is vital that, as a community, we work together to improve the sustainability of our school and local area. We are currently working towards our Eco-Schools Green Flag award, as part of which we have chosen three topics to work on: Global Citizenship; Waste and

Litter. As part of our action plan, we are hosting green week to engage the whole school in our progress. But we also need your help for this. As part of the week, we will:

- Providing guest speakers such as local Green Party representatives and volunteers from local charities
- Activities in form and assembly presentations
- Money raising activities throughout the week

But the most important of all these events is taking place the following week, Tuesday 5 April. We will be holding an event after school in Swann Hall to:

- A clothes drive collections and other items for Ukraine, details on what in particular to follow in next week's article and a letter. (This is separate to the current Ukraine appeal)
- A book swap, bring along your old books in return for new ones, this may include textbooks and revision guides if donated. Collections for these can begin earlier, if you take them up to the Geography office. All left over books left over will be donated to children's hospitals or charity shops.
- Food bank collection to be split over local charities and banks.

We would love as much support as possible throughout the week, yet this event will be key to reaching our target of making our school more eco-friendly and sustainable, as well as achieving our Eco-Schools Green Flag.

Please donate all you can and pop in (there may also be refreshments) to support the school and the local community!

Thank you so much – HGS Eco-Committee





## Calling Year 9 & 10 Students Are interested in a Career in STE(A)M

The virtual Routes into STEM course allows students aged 13+ (Yr 9 & 10 and S3 & S4) to recognise the variety of opportunities available to them after taking their GCSEs or Nat 5 and Highers, it will provide them access to key information on different pathways; college, university and STEM career. Diverse live interactive sessions will take place during half term or summer holidays allowing students to listen and ask questions to a variety of STEM professionals and student ambassadors. Students will also choose from a range of exciting projects, developed by our University and Industry partners, to work on during the course.



# Mother's Day Sunday 27 March

Looking for the perfect Mother's Day Gift?  
Want to help support a local charity?

The look no further order the Grow Wild Seed launcher designed by our very own Team HGS Design Venutra winners 21/22.

The team;s success has been recognised byt he Departmet for Education



Department for Education ✓

1 March at 20:00 · 🌐

Not too many designers get to feature in the [Design Museum](#) - especially when they're just 14.

But a group of pupils from Heckmondwike Grammar School in West Yorkshire have just done that, thanks to their award-winning design.

They came up with Grow Wild, which allows people to easily distribute wildflower seeds from a small, simple and sustainable canon, which turn into flowers that create a source of pollen for bees.

Year 10 students Alice, Emily, Hannah and Naomi won the [Design Ventura](#) competition, a flagship Design and Enterprise project for schools, run by the Design Museum in partnership with [Deutsche Bank](#).

The challenge was to make a product to improve everyday life which is also ethical and that can retail for around £10.

They worked with designers to turn their idea into a real-life product - and it's now on sale online.

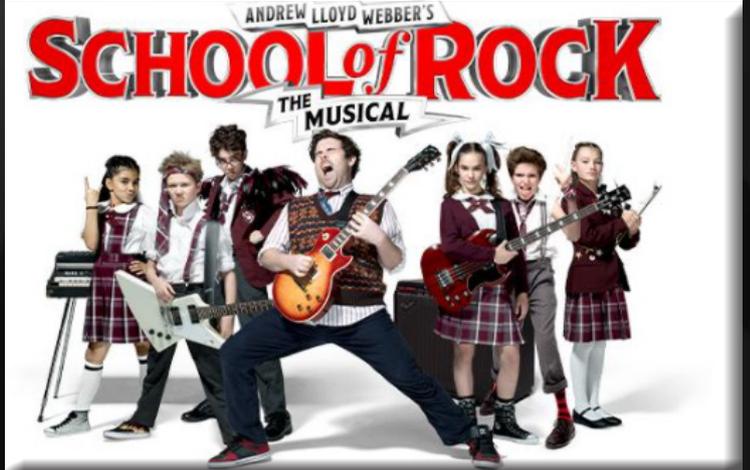
All profits will be donated to Kirkwood Hospice, chosen by the pupils themselves because of their close connections with the charity.



The Grow Wild Seed Launcher can be purchased from <https://designmuseumshop.com/products/grow-wild> and we think it would make the perfect Mother's Day gift!

# HGS

trips



Yr 10 Music & Drama Students - Leeds Grand



## Parent Notices

Thursday 31 March

Year 11 Virtual Parents Evening (2)

Details to emailed 17 March - booking opens 18.00 Friday 18 March  
use here to make yor booking

<https://heckmondwikegrammar.schoolcloud.co.uk/>

Tuesday 5 April

Year 10 Music & Drama Students School Of Rock, Leeds Grand

Thursday 7 April

Year 13 Virtual Parents Evening (2)- details to be  
shared W/C 22 March

Important Information regard Parentpay.

Parentpay are making some planned changes on  
Wednesday 23 March.

As a result users will not be able to log in to Parentpay for  
approximatley 4 hours after 22.00.

Apologies for any inconveniencve

The humanitarian crisis in Ukraine is rapidly increasing, anyone wishing to help families  
fleeing the conflict in the way of monetary donations see details below



**Disasters Emergency Committee**  
**UKRAINE HUMANITARIAN APPEAL**

Online: **dec.org.uk**

Phone: **0370 60 60 900**  
Standard geographic charges from landlines and mobiles will apply

To donate **£10 text HELP to 70150**  
Texts cost £10 plus your standard network message charge.  
100% of your donation will go to the DEC UKRAINE HUMANITARIAN Appeal.  
You must be 16+ and have the bill payer's permission.  
For full terms and more information go to dec.org.uk

Post: **PO Box 999, London EC3A 3AA**  
Cheques payable to DEC UKRAINE HUMANITARIAN Appeal