

Design and Conquer

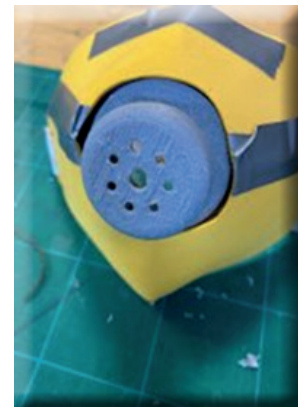
A Level Product Design

Our A level Product Design students have continued to prove why they are the flagship subject of the Design and Technology Department, despite facing the challenges of lockdown. With just over three months remaining to complete their major projects, the group has been busy producing and testing a range of innovate prototypes that they are now making into final design concepts. In this Heckler we'll take a look at some of the current highlights!

Mason Bamping's Sports Mask



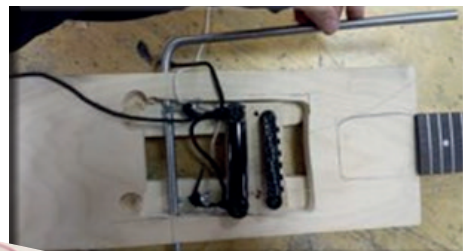
Designed to increase athlete performance by simulating the effects of high altitude training, the mask will offer users a variety of interchangeable filters to simulate varying levels of breathing resistance. Despite sounding like a disaster waiting to happen... the science behind Mason's product indicates that this method of breathing training can have a significant impact on cardiovascular performance, with increased anaerobic thresholds and strengthened respiratory muscles. We're looking forward to seeing how the product develops!



Jeremiah Truman's Folding Guitar



After identifying some of the problems faced by guitarists, Jeremiah has identified a need for a device that will allow musicians to easily store and transport their guitar when faced with limited space. His solution... a folding guitar! The real challenge with this project has been devising a method of loosening and tensioning the strings to allow the folding mechanism, and Jeremiah has developed a clever 'sliding bridge' that can be locked in different positions to enable this function. His latest prototype also includes a built-in amplifier that would allow the user to amplify the guitar for practice session on the go!



A Level Product Design continued

Khai Parkin's Fire Cloak



Whilst it may look like something out of a 1960's Sci-Fi movie, Khai is in fact currently prototyping an ingenious solution that could help save lives by helping people escape more safely from domestic fires. The cloak will be made from flame resistant fabric which is attached to a helmet and visor which would help to protect the user from the heat of the fire. Khai is currently exploring the potential of integrating a clever 'smoke snorkel' into his design that would hang down to the floor where the air is less saturated with smoke. As part of this project, Khai has been working with a local firefighter who has provided him with a crucial insight into fire safety and helped him to develop his



product.

Our A level Product Design provides students with an excellent opportunity to develop innovative design solutions by combining creative ideas with technical theoretical principles. Students often progress onto careers in Engineering, Design, Marketing and Architecture. Please speak to your Design and Technology teacher if you would like to know more!

The Knitters are Knitting

Thank you to Mrs Khan mother of Maya Khan year 7 who is putting her time in lockdown to good use and joining in the Bit Knit - Excellent



If you have some old wool at home and wish to help please drop your completed squares at reception for the attention of Mrs Foster-closing date is Friday 28 May 2021

GETTING STARTED

Use this leaflet as a size template

Pattern for 15cm (6") Garter Stitch Square

Red | Orange | Yellow | Green | Blue | Indigo | Violet

You will need:

- 4mm needles
- Double Knit yarn in one of the rainbow colours

You can use different shades of the same colour to create patterns and textures or try different stitch techniques to add variety.

For inspiration, project updates and to link with others taking part, please join us on social media, or have a look on the website for downloadable resources and ideas woveninkirklees.co.uk

1. Cast on 33sts
2. Knit every row until the knitting measures 15cm (6")
3. Cast off

SEND YOUR COMPLETED SQUARES TO
Big Knit, Queensgate Market, 1st floor office,
Princess Alexandra Walk, Huddersfield, HD1 2UJ
Please include your name, postcode and tell us if you are taking part, as part of a group.

Careers Team update



Year 13 students applying to university to study medicine, dentistry and allied health professional courses have recently benefited from mock interview experience to help them to prepare for their virtual assessment days. Ambassadors from The University of Sheffield and The University of Bradford kindly offered their time to deliver the interviews and provide valuable feedback to our students. Surveys following the interviews highlighted that all students who participated felt their confidence had increased as a direct result of the mock interview.



A session has been arranged for Year 13 students applying for employment, school-leaver schemes and apprenticeships (to include degree apprenticeships) to support their interview preparation.

We will be joined by former students Eve Halmshaw (Nestle), Jack Sharp (Nestle), Tanvi Ramesh (PWC), Ebony Whitehead (Mazars) and Tom Ashen (Mazars) to provide advice based on their personal experiences of the recruitment process. This session will be taking place remotely on 28 January; we invite Year 13 students to sign up for a place using the MS Form shared earlier this week.



The Careers Team continue to share a wide range of virtual work experience opportunities to students. This week, Springpod have launched applications for their free opportunities that are due to take place during January and February. They cover a range of vocational areas such as law, nursing, journalism, finance, medicine and teaching. Employers represented include Nestle, the NHS and The Chartered Institute of Marketing. For the majority of programmes, you need to be in Years 10-13 to be eligible to apply.

Further details can be found at <https://www.springpod.co.uk/finance-virtual-work-experience/>



Oxford successes for HGS students

We are delighted to report that year 13 students continue to receive many offers to study fulfilling courses at leading universities in the UK and, in one case, the United States. Worthy of particular note are the five year 13 students who, having come through one of the most rigorous and competitive application processes in higher education, on Tuesday received offers of places to study at the University of Oxford.

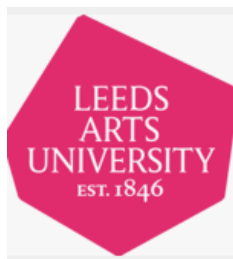
The students are:

Jay Patel, who has an offer to read Physics at Jesus College; Elizabeth Drake, who is holding an offer to read Chemistry at Lady Margaret Hall; Rose Hickman, who hopes to study History and Politics at Oriel College; Evie Hargreaves, who has an offer to read Materials Science at Queen's College; and Amelia Glover-Jewesbury, who holds an offer to read Classics and English Literature at Regent's Park College.

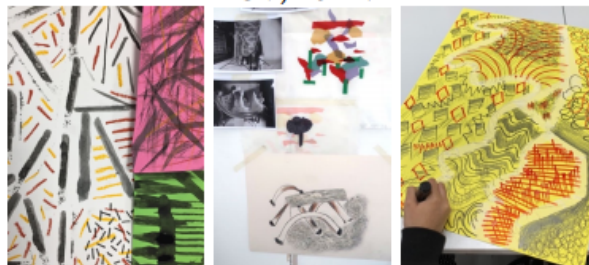
Our congratulations to all students on their richly-deserved success, and good luck to the 11 students who expect to hear from the University of Cambridge on 25 January - watch this space to see how they get on!



Calling All Budding Artists - Leeds Art University After School Club



AFTER SCHOOL ART CLUB - COLOUR THEORY YEARS 9, 10 AND 11



Thursday 28th January - Thursday 11th March 2021

Released at 12 noon every week

There will be 1 week break for the half term on Thursday 18th February.

After School Club is a six-week, free online course aimed at Year 9, 10 and 11 pupils who want to develop their colour theory skills further with practical workshops, find new ways to use sketchbooks, explore more about contemporary and modern artists from a range of disciplines and see examples of learning from student ambassadors at Leeds Arts University

Tutors will be available throughout to support and answer questions at any time.

The content of the course will include:

- Workshops and handouts exploring various methods of colour mixing
- Workshops and handouts applying colour theory to art and design projects
- Exciting examples of contemporary and modern artists and designers to research
- How to present the project using sketchbooks
- Current Leeds Arts University student ambassadors will share samples of their approaches to the workshops

Completed forms must be emailed to Leeds Arts University by Friday 22nd January 2021 using the following email: progression@leeds-art.ac.uk

We will email you whether or not you have a place on the Preparing for Arts University course.

Please note:

The After School Art Club is a widening participation initiative that is part of the Leeds Arts University's Access and Participation Plan, approved by the Office for Students (OfS). The course is very popular and numbers are limited, therefore applications are considered on an individual basis. Young people from under-represented backgrounds or who live in an area of low participation in higher education will be prioritised.

Taking part in this progression activity organised by Leeds Arts University's Progression Team does not automatically mean you will be accepted on to a course at Leeds Arts University, should you choose to apply to one of the institution's courses.

#Heckyunited - Weekly Challenge



Challenge Two - keep your suggestions coming!

The Sock Challenge - Thanks to Jasmine Jacob Year 7 for your suggestions

Feeling energetic - Roll a pair of sock into a ball and drop them to your foot: kick the socks up in to the air, like a football and see how any times you can kick them up in the air before hitting the ground. Send photo's and videos to adminoffice@heckgrammar and get kicking.



Feeling crafty

Make a sock creature out of a pair old socks sand give it name - sockosaurus - email a picture of the completed animal to adminoffice@heckgrammar.co.uk and in next weeks Heckler we will have a picture wall of all staff and students' designs. Good luck

HECKMONDWIKE GRAMMAR SCHOOL

HOUSE CHALLENGES

RUN / JOG / WALK CHALLENGE

5K TIMED CHALLENGE

POINTS FOR FASTEST AND MOST IMPROVED EACH WEEK

DISTANCE CHALLENGE

POINTS FOR LONGEST DISTANCE EACH WEEK

SUBMIT SCREENSHOTS TO
HOUSES@HECKGRAMMAR.CO.UK

RESULTS WILL BE POSTED ON HOUSE TEAMS EACH
WEEK

Heckmondwike Grammar School Physics Department

Astronomy Photography Competition

The picture on the right is an entry to our Astronomy Photography Competition by **Jasmine Jacob** in 7H1, using an iPhone and a telescope.

With modern smartphones and cameras, it is possible to take produce outstanding images.

For advice on how to capture your own images and enter the competition yourself, join the Astronomy Competition Team by entering the following code into Microsoft Teams:

p7ce5ni

The deadline for entries is Friday 26th March 2021. Contact your Physics teacher for further details.



British Geologist Tim Gregory and Ex HGS Stu-



Our former student, Tim Gregory, is not only a reality TV star, but is now getting his book reviewed in the Wall Street Journal!

'Meteorite' Review: We Are Stardust

Sports News



In the final match before the lock-down, Luke Jackson, Year 7, helped his team, Norrithorpe Hornets, overcome Bradford Phoenix, in the 2nd Round of the Under 12's Cup Competition.

.. Luke is now in his 5th season at the club and a previous Cup semi-finalist...

.. now he has to await the re-start of grass-roots sports.. and further Cup success..! Well done Luke!

Well Deserved!

Aran Handa (Year 7) sat his Grade 1 exam in Leeds on 18th December. Even though he had to adhere to a whole host of Covid exam restrictions for the practical exam, I'm pleased to announce he was awarded a Distinction.

Roll on Grade 2.



Winner!



Zakiya Dar in 9C1 won Tracy Brabin's Christmas card competition over the holiday period.

It was used as her electronic Christmas card to MP's and members in her office!

Elizabeth Lee – Year 7 (7C1)

Another Winner!

Elizabeth entered a poem competition with Young Writers last year and found out that her poem “Golden Eagle” was selected from hundreds of entries to be included in a book called ‘Once Upon A Dream – Poetic Voices’.

Elizabeth’s poem was also chosen as the overall winner for the “Once Upon A Dream 2020” competition and won £50 and received a framed certificate!

The book has now been published and a copy of it will be stored in the National Archives!

This is her 4th Poem to be published! Here is Elizabeth’s winning entry!



Golden Eagle

*It all started off as a faint tap outside my bedroom door,
It was no louder than a mouse scuttling across the floor.
The tap came again, but now I've heard it a second time,
It sounded like a razor-sharp talon, echoing like a chime.*

*I slipped out under my duvet, and felt the hairs on my
neck prickle with fright,
Because, who knows what could be waiting out there in
the middle of the night!
As I caught sight of an amber-yellow eye, reflected with
my face,
My heartbeat started to accelerate to a quicker pace.*

*My door started to creak open as I got a glimpse curved
claw,
And then it finally swooped in and snatched me up with
its firm, strong jaw.
We flew up, out of the window, and I felt light droplets
of rain,
And as I looked up, I saw my wet-haired reflection again.*

*Then I saw feathers, lots of them, fluffed to perfection, a
beautiful copper-brown,
And when I looked down, I could see the dark silhouettes
of the tops of trees and below me, the ground.
Now I gazed upwards, into the surprisingly comforting,
bold eye,
And now that I could see it much more closely than be-
fore, I could see behind it, that we were up in the sky.
In the iris of the eye, mini golden galaxies, with bronze
swirls of adventure were laid there,
It seemed like it was rippling on the edge with excite-
ment, since the galaxies exploded into universes, and the
swirls transformed into hurricanes with a flair.*

*I felt the vicious wind whipping my hair into a messy
knot that was curled and twisted,
And then I hauled myself onto its plump back, feeling
free, and because I was so high, so distant.
I could see the clearness of the night atmosphere, the
diamond stars twinkling,
The bright shine of the moon, and a faraway planet
winking!*

*I felt wings spread out underneath me, and
I stretched over the side into thin air,
I kept my grip, as we glided along, and I
was leaning over the front of it as far as I
dare.*

*From here, I could see an outline of a
hooked beak, coloured a light smoky ash,
Which was shrieking a mild squawk,
smacked its beak together, and the sound
a clomp receded into a clash.*

*The feathers turned a silvery grey in the
moonlight, shimmering with parts of land
and sea,
Then it turned a swift 180, soaring back
down at full speed, taking the breath that I
was holding, with me.
I saw the sun rising, as it was now at the
crack of dawn,
And I finally saw what I was riding, while in
shock, I stifled a yawn.*

*It was an absolute giant of an Eagle, a
Golden one to be precise,
It had the length of a fully grown lion, and
it looked glorious in the sunlight.
But that special moment was shattered as
it started to fly,
Leaving me alone, standing in my garden,
as the clouds began to emerge into sky.*

*I was left wondering if it was just a figment
of my imagination, what I had just seen,
But the feather that was stuck in my hair,
made me realise, that it wasn't just a
dream.*

Amazing Elizabeth what a talent keep it up!

'History Students' Snow and Tell' '

Can you guess which historical figure is made of snow?' We think they're Brrrrrrrrilliant!



1 _____
3 _____
5 _____
7 _____
9 _____

2 _____
4 _____
6 _____
8 _____
10 _____

Can you spot the Trick??

Answers in next week's Heckler

Helpful Tips

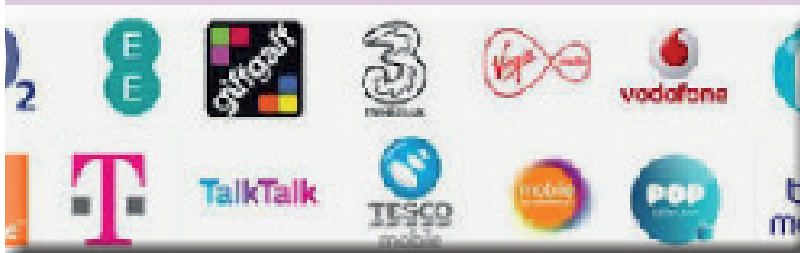
BBC Launch Lessons

Reacting quickly to the news of UK schools moving to remote learning, the new offer from the BBC will ensure all children can access curriculum-based learning, even if they don't have access to the internet.

For parent with younger children starting on Monday 11 January, each week day on CBBC will see a three-hour block of primary school programming from 9am, including BBC Live Lessons and BBC Bite-size Daily, as well as other educational programming such as Our School and Celebrity Supply Teacher and much loved titles such as Horrible Histories, Art Ninja and Operation Ouch.

For parents with older student BBC Two will cater for secondary students with programming to support the GCSE curriculum, with a least two hours of content each weekday.

- For secondary pupils, Bitesize is also home to two-week learning packs for English and Maths in KS3 (years 7, 8 and 9) as well as This Term's Topics for other subjects to be used at home or to support teachers in the remote classrooms.
- For students in Years 10 and 11, the Bitesize GCSE offer allows students to pick their exam board and subject to find everything they need to help with their studies. Visit bbc.co.uk/bitesize/secondary for details.



Free Mobile Data Increase

Families can request free mobile data increases for students without broadband/and or who can't afford extra data for devices. Three, Smarty, Virgin Mobile, EE, Tesco mobile & Sky mobile are all taking part - further information is available at :

<https://get-help-with-tech.education.gov.uk/internet-access>

Accessing Team using Xbox/Playstation

How to access online learning on an Xbox

1. Plug a keyboard in to the Xbox USB slot (less than £10 from Amazon)
2. Go in to my games and apps
3. Find Microsoft Edge and select
4. Type in Office 365 and log in as you would in school.
5. You can then access your work and use key packages including: Word, Excel, Powerpoint, Teams, your emails
6. To move around you use the Xbox controller or plug in a mouse (available widely including Amazon)

How to access online learning on a Playstation

1. Identify the Playstation internet browser icon (it is www with dots around it)
2. Press the Playstation logo on the controller
3. Go to the library and find options for games and applications
4. Go into applications and you will find the internet browser
5. Type in Office 365 and log in as you would in school
6. You can then access your work and use key packages including: Word, Excel,