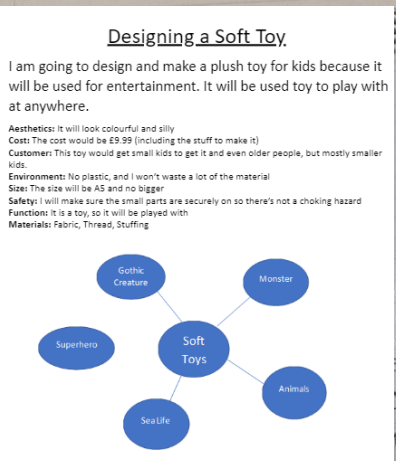
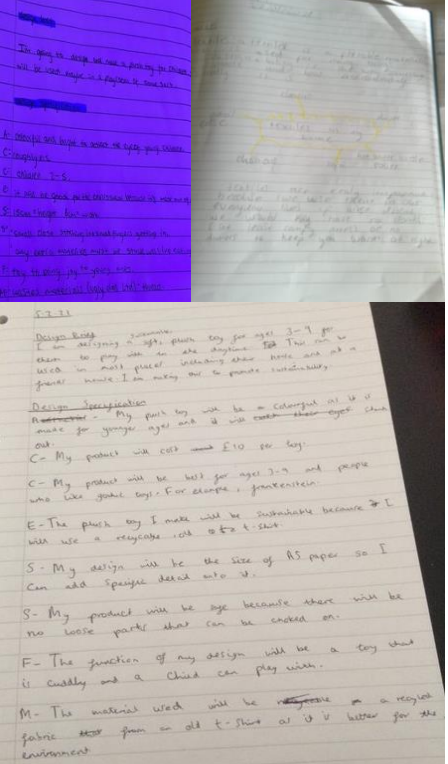


[illegible]

Well done year 7!! You have produced some excellent design ideas and here are just a few great examples! Keep up the good work!



I am designing a toy doll for young children so they can play with the toy.
Aesthetics: It will be based on a reptile animal, but have some different features.
Cost: It will probably cost a few pounds to make and it will be sold for £6.
Customer: This toy will be aimed at very young children, from the ages of 3-6.
Environment: I will use natural resources to make my toy because it is the best for the environment.
Size: Its length will be the size of some A5 paper, so its not too big. Its height and width will be thought upon later, seeing what matches with the length.
Safety: To make it safe, I will ensure that there is no needles sticking out.
Function: My creation will be a toy.
Material: I will make it from cotton because it is a natural resource.



Well Done Year 8

Well done year 8! You have all been working brilliantly this term on your Design and Technology projects. Here are a few excellent examples of work. Keep it up year 8!

Friday 5th February 2021
Lesson 5: Textiles

I am going to design and make a plush toy for 3-7 year olds because they like to play with that toy. It will be used out of recycled materials to stop it from going to a landfill site and it will be cheap and safe to sell.

Aesthetics - This should look really cuddly and colourful as it is aimed for younger children.
Cost - This should be cheap to make as I am using sustainable, recycled materials, however it will still for £7.
Customer - This should be all young children from 3-7 or parents buying for them.
Environment - I am using recycled materials to stop them from going to a landfill site and to give it a new lease of life.
Size - About the size of an A5 piece of paper, 20cm by 10cm.
Safety - There will be no small parts that a young person can put in their mouth and there will be no loose threads.
Function - It will be designed to be a nice cuddly soft toy on a bed.
Materials - I will use old scraps of material to make the toy.



My design is for all ages. My design is based on the characters of BT21. I am making this because I personally really like the characters and find them very cute. I am making this mainly for myself, but anyone could use it. It could be used for decoration, such as putting it on a shelf for display, but you also use it as a toy to play or cuddle with. Looking at all the characters, they all have a distinctive color representing themselves. The cost of making this toy will be low, I already have all the existing items at home, so it will not be a problem. I would sell this for a maximum of £5, just because this is not an official piece of the BT21 merch, it's handmade. Usually, these plushies would go for quite a lot too (official ones). My toy would be sustainable, it is used by existing materials, which I do not use anymore so instead of throwing it away, I am re-using it. For the size, I would make it no more than the size of a A5 piece of paper. For safety, I will make sure no sharp pieces will get inside and keep the material soft will try to keep the toy as light as possible to avoid injuries (throwing it around and dropping it). I will make it out from old clothes (not exactly the same colors) and an old pillow. My mother already has thread and needles at home.

Natural Fibres
Are fibres that are produced by plants and animals and geological processes. They can be used as a component of composite materials, where the orientation of fibres impacts the properties. Natural fibres can also be matted into sheets to make paper or felt.

Synthetic Fibres
Some fibres are called synthetic fibres because these are manmade fibres prepared by using chemicals. These are made of small units that join together to form long chains. Some of the examples of synthetic fibres are nylon, rayon, acrylic, polyester etc.

Non-Woven
Nonwoven fabrics are broadly defined as sheet or web structures bonded together by entangling fibre or filaments (and by perforating films) mechanically, thermally, or chemically. They are the result of extensive research by scientists to improve upon naturally occurring animal and plant fibres.

Knitted fabric
Knitted fabric is a textile that results from knitting, the process of inter-looping of yarns or inter-meshing of loops. Its properties are distinct from woven fabric in that it is more flexible and can be more readily inter-meshed of loops.

Woven fabric
Woven fabric is a textile formed by weaving. Woven fabrics are often created on a loom, and made of many threads woven on a warp and a weft. Technically, a woven fabric is any fabric made by interlacing two or more threads at right angles to one another.

1. Natural Fibres - Natural fibres or natural fibres are fibers that are produced by plants, animals, and geological processes. They can be used as a component of composite materials, where the orientation of fibres impacts the properties. Natural fibres can also be matted into sheets to make paper or felt.

2. Synthetic Fibres - Synthetic fiber or synthetic fibre are fibers made by humans through chemical synthesis, as opposed to natural fibers that are directly derived from living organisms. They are the result of extensive research by scientists to improve upon naturally occurring animal and plant fibers.

3. Non-Woven/Bonded - Nonwoven fabrics are broadly defined as sheet or web structures bonded together by entangling fiber or filaments (and by perforating films) mechanically, thermally, or chemically. They are flat, porous sheets that are made directly from separate fibers or from molten plastic or plastic film.

4. Knitted fabrics - Knitted fabric is a textile that results from knitting, the process of inter-looping of yarns or inter-meshing of loops. Its properties are distinct from woven fabric in that it is more flexible and can be more readily constructed into smaller pieces, making it ideal for socks and hats.

5. Woven fabrics - Woven fabric is any textile formed by weaving. Woven fabrics are often created on a loom, and made of many threads woven on a warp and a weft. Technically, a woven fabric is any fabric made by interlacing two or more threads at right angles to one another.

DEFINITIONS	
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27/01/2021

Textiles and Sustainability

definition:
Any item or goods produced by weaving, knitting or felting.
A material, as a fibre or yarn, used in or suitable for weaving. It can be used as a textile.

Textiles are important as for its many aspects in life: from clothing, blankets to ~~books~~ sails and tents. so we need it to survive.

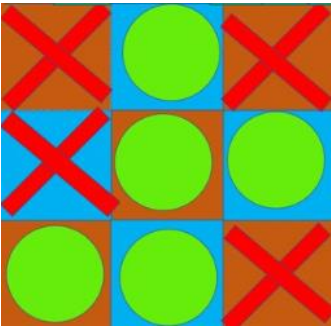
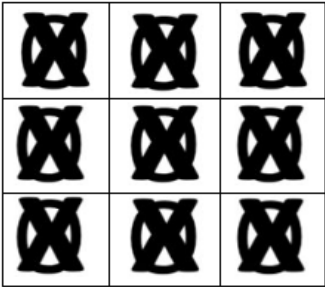
Speedo Fastskin	This is a swimsuit modeled after the skin of sharks - these are meant to reduce drag in the water and make them faster.
Interactive fabrics	allow small electronic components such as batteries or lights to be embedded inside them.
Thermochromic fabrics	these materials change their colour by temperature change.
Kevlar	a synthetic fibre of a high tensile strength usually used for rubber products.
Gore-tex	a synthetic waterproof fabric permeable to air and water vapour, used in outdoor clothing.
Carbon fiber	a material consisting of thin, strong crystalline filaments of carbon used as a strengthening material.
Electroluminescent	materials that are able to emit light in response to the application of an electrical current.



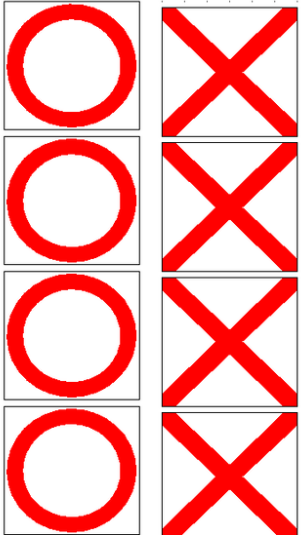
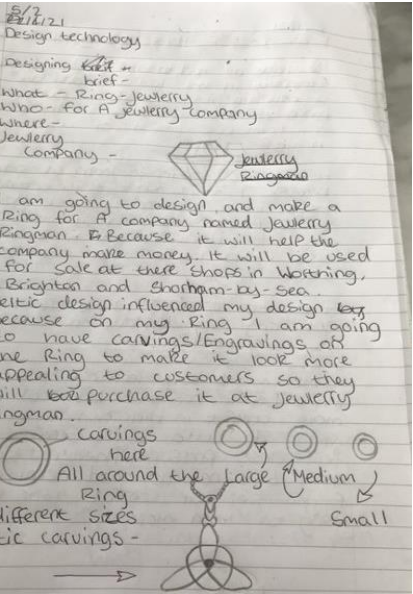
Well Done Year 9!

You have all been working brilliantly this term on your projects and the quizzes!!

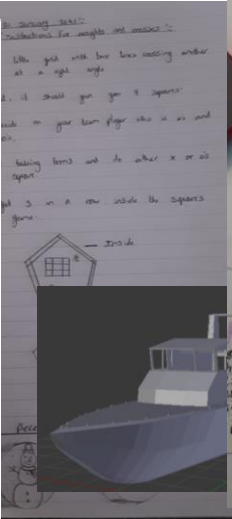
We have been really impressed by the amount of CAD work we had in! Keep up the good work!



we are using a laser printer
I am going to create a Pewter piece of jewellery for my Mum. It will have to be small and appealing.
Then write a Design Specification (The things that you design must do to be successful)
include
In your Design Specification (The things that you design must do to be successful) include
-Aesthetics: The look (modern/colourful) etc
My design will be dark grey but will still look nice. I will probably keep it silver.
-Cost: The cost to make and how much it would sell for?
The material will cost around £5 and because of the time it will take to make, I would sell it for around £7.50
-Customer: The target market (try to include a range of users- not just one person
It could appeal to men and women of most ages but not little children as it is a ring and they could choke on it.
-Environment: Where will your design be used?
It will be used as a necklace hung around the neck.
-Size: What is the biggest it should be (I would keep your designs around 30mm by 10mm by 3mm)
It will be around 30mm by 10mm by 3mm
Safety: What will you need to consider to make sure your design is safe?



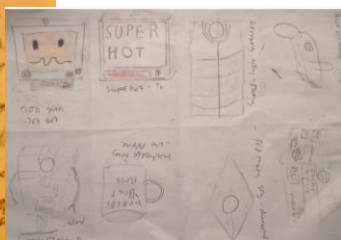
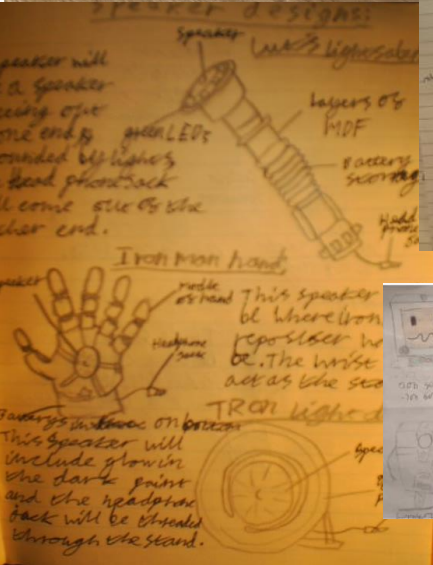
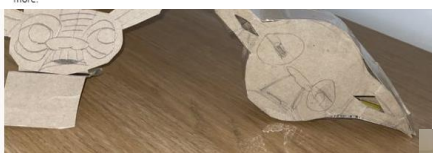
WELBECK 78 PACE 80 DRIB 81 SHOT 79 PENS 75 PASS 38 DEF 76 HEAD 74 PHYS	MARCH 86 PACE 82 DRIB 76 SHOT 70 PENS 85 PASS 65 DEF 77 HEAD 67 PHYS
BISSOUMA 80 PACE 83 DRIB 74 SHOT 68 PENS 83 PASS 70 DEF 83 HEAD 74 PHYS	TAU 81 PACE 80 DRIB 79 SHOT 83 PENS 79 PASS 60 DEF 80 HEAD 77 PHYS





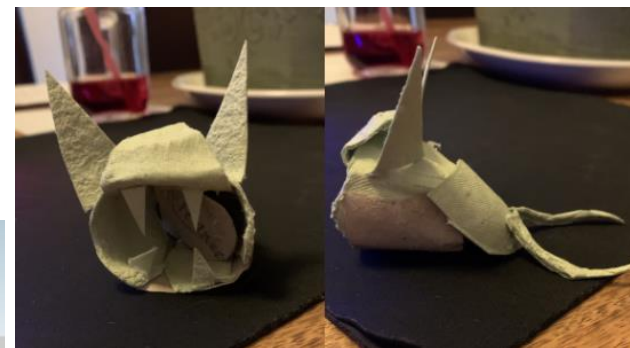
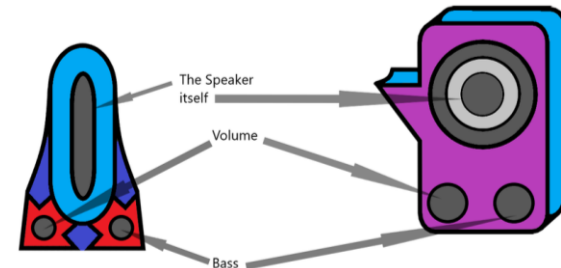
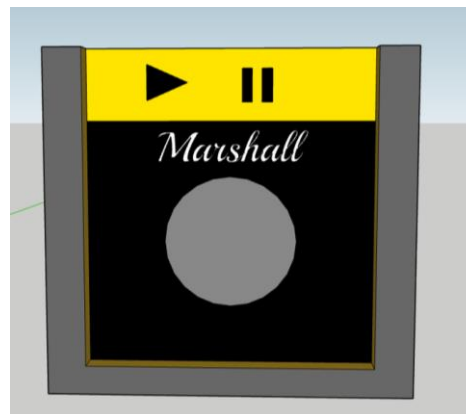
I could focus on designs for general spaces like in someone's house or in their car. To be inclusive they can have large, easy to read buttons and are easy to set up and use for people who don't understand it all fully.

I could also focus on the teenagers who would want speakers to play music. These could be Bluetooth and very portable so they can carry it around with them. This is because some of them don't like some of the current speaker designs where they are big and hard to be carried around. To improve my design I can make my speaker quite compact so it appeals to them more.



Well Done Year 10

Well done to all of the year 10 Design and Technology students. You have been working brilliantly this term on your coursework, keep up the good work! Here are a few examples of some of the excellent work you have produced so far.



Design developments – Lego head and X-MEN logo:



The first this was to make the outside design but in 3D.



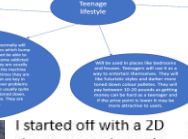
The Next thing was to make it look more like a LEGO head.



I then figured out where the speaker would fit.



Finally, I added in a volume control and switch that would be on the product.



I started off with a 2D shape to get the main shape.



The cylinder couldn't balance very well so I added a stand.



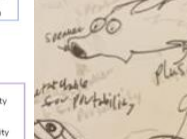
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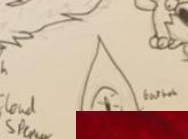
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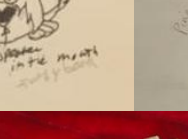
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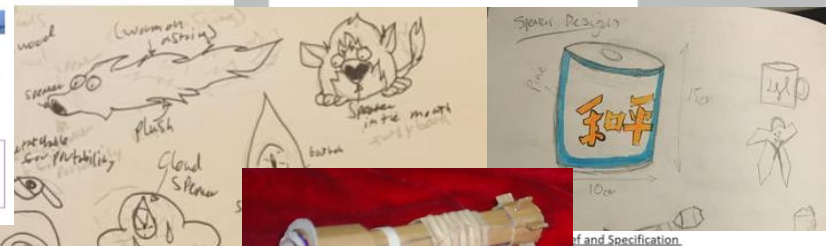
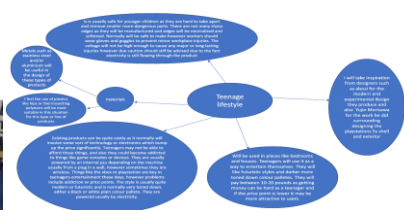
The cylinder couldn't balance very well so I added a stand.



The cylinder couldn't balance very well so I added a stand.



The cylinder couldn't balance very well so I added a stand.



My design will be made up of pine wood and MDF. I think these are suitable because they are both cheap to buy and easy to use in a design. I want it to be cost effective so I can make a decent profit and have enough for a part on my design. As well as the battery it will be one of those ones where you plug the wire that plugs into it is connected to a plug socket it will have decided my speaker must:

- It will be a mass production speaker, a fully automatic machine with human hysteresis to make sure everything is okay, because in the long run it saves human power and money. Also, it looks good if the speakers are not labor mass built.
- It will need a patent and not break any laws from doing so, because I don't want to get in any legal drama that could affect my business and or product that I'm trying to get.
- No references must appear in all ages (mainly over 18's) because they are the age that have work and are now working at home.
- The size is 15cm x 15cm horizontally, 15cm vertically.

Sketch:

My design will be made up of pine wood and MDF. I think these are suitable because they are both cheap to buy and easy to use in a design. I want it to be cost effective so I can make a decent profit and have enough for a part on my design. As well as the battery it will be one of those ones where you plug the wire that plugs into it is connected to a plug socket it will have decided my speaker must:

Well Done Year 11

Well done to all the year 11 Technology students. You have been working brilliantly this term, keep up the good work!

Unfortunately as you are working on your Coursework NEA we can't share images of your work but have been really impressed with what you have produced so far.

We are really looking forward to seeing the finished products that you will make when we return back to school. Keep up the excellent work!