

Everything you need to know about Design and Technology at The Holgate Academy



THE
HOLGATE
— ACADEMY —

- Meet the team of DT teachers and technicians.
- The equipment you'll need for your DT lessons.
- What you will learn in year 7
- Health and safety
- DT knowledge organisers.

We hope you find this guide useful and we look forward to meeting you all in September.



Ms Berry – Design Technology Teacher, head of year 9 and deputy safeguarding lead.

Likes: Holidays, sunshine, ,eating cake and running, family time

Dislikes: Ironing, doing house work

What topic are you looking forward to teaching year 7 and why?

In year 7 textiles the topic will be Alice in Wonderland. I particularly enjoy this topic as it is colourful creative and I've always loved the story.

In year 7 Food and Nutrition the topic will cover healthy eating and learning lots of cooking skills. Perfect for developing your life skills.



THE
HOLGATE
— ACADEMY —



Mr Harvey

I teach resistant materials and other subjects. I am happiest when I am in the workshop.

I support Derby County...go Rams!!!

I love spicy Indian food

I love trains and spent a big chunk of my career maintaining and building trains

I can play the guitar



Mrs Bailey

Likes: family, sunshine holidays, cooking and baking, love supporting students in class, MacDonalds cheeseburger, Chocolate and cheese, mild exercise - walking

Dislikes: Spiders and snakes, cold rainy days, marmite and hovering

About me;

I am a food technician in the DT food department at THA. My role is to buy on behalf of the school all the ingredients you will need to be able to take part in our cookery lessons. It doesn't matter if you're a diabetic, vegetarian, or have an allergy I am able to adapt our recipes to suit you. I will also be in your practical classroom to offer help when needed; so you can enjoy your cooking experience at Holgate, whilst learning many skills that you will remember in life; some of you may even go on to make catering your career in the future. The dishes you make are taken home by you for your parents/carers to enjoy. I'm really excited to be meeting you all in September and hearing all your stories of what and who you cook with at home.

Miss Clarke

Likes:

Dislikes:

What topic are you looking forward to teaching year 7 and why?



Miss Clarke – Art and Design Technician

Likes: Drawing, reading, playing video games, watching spooky films, listening to punk rock, fussing my cats

Dislikes: Soggy bread, salad cream, badly made coffee, the Twilight Saga

About me: You might not see much of me this year, as I'm going to be having a baby at the end of September! But usually my role is to help prep DT lessons, making sure the various tools are working and helping you finish any work that requires the laser cutter or **big** tools like the bandsaw. You'll also find me in Food with Mrs Bailey, prepping practical lessons and occasionally helping the teachers in your lessons. I may not get to know you much this year but I look forward to getting to know you all when I'm back from maternity leave!

Equipment you will need for your DT lessons



Blue or black pens to complete your written work.

All of this equipment can be found in your local supermarket or online.



A pencil for your diagrams.



A green pen to mark your work and make corrections.

Desirable equipment to have. These will help with your drawings and designs.



A ruler to underline date and titles, also to draw neat diagrams.



Food and Nutrition Equipment, Hygiene and Safety

Things you will need and need to know



On days where you have practical lesson in food you will need a container to take home your food without it leaking or spilling.



If you have long hair you will need to have your hair tied up on have a bobble to tie it up at the start of the lesson.



A bag to carry your food in. This can be your school bag or another suitable bag.



Every lesson you will be expected to have your basic equipment.



NO GEL/NAIL VARNISH
You will not be able to cook if you have nail varnish on. You will be asked to remove any nail varnish before cooking. We also recommend you do not have gel varnish when cooking.



NO JEWELLERY

On days when you cook. It is advised that you leave any watches, rings at home. If you wear jewellery on a cooking day you will be asked to remove it and put it in your blazer. Your teacher will not be responsible for looking after it.



You will be provided with an apron. But you can bring your own colourful, fun apron if you would like to stand out.



Pencil crayons might be useful on the lessons where you need to design a health dish.

What to wear in the Workshop

- You will be given an apron
- Your tie must be tucked behind the apron or in your shirt
- You will be given safety goggles to wear
- All long hair must be tied back
- Blazers, coats and bags are required to be stored in the Boxes provided in the workshop

When taking part in textiles you need to make sure coats are on chairs and bags are under tables. You will need to wear an apron when using fabric dyes and inks



What will I learn in Design and Technology?

- You will learn first of all how to use both DT rooms and Food rooms safely. This is very important as you will be using equipment that takes a lot of focus and care, so health and safety is very important.
- You will do a rotation in year 7. this means you will explore a number of different subjects that you will find in Design and Technology. These rotations last about 8/9 weeks. Once you have completed that subject your teacher will tell you which subject you will do next.






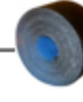



What subjects will I experience in the Design and Technology rotation?

- 1. **Food and Nutrition**, you will learn about healthy eating and safe cooking practises in the food room. You will get to bake and take your goods home with you
- 2. **Workshop**, you will create and make your own keyring using specialist tools and machinery in our dedicated workshop.
- 3. **Photography**, you will discover how to use a camera like a professional and pick up some useful tips to ensure you always take a successful shot. You will use our purpose built photography studio.
- 4. **Graphics and Product design**, you will explore the design process and create a product that answers a client brief.
- 5. **Textiles**, you will take part in a project that expands and explores Alice in Wonderland resulting in you creating your own textiles based Mad Hatter's Tea Party.

Design and Technology Knowledge organisers

Design Technology- Manufacturing Knowledge Organiser - Year 7 workshop

A: Tools and equipment

Name of tool		What the tool is used for
Hacksaw		The hacksaw is used to cut steel and other metals
Flat files		A file is tool used to remove fine amounts of material from a work piece. ... Most are hand tools, made of a case hardened steel bar with one or more surfaces cut with sharp teeth.
Needle Files		Needle files are small files used to finish and shape metal.
Pillar Drill		A machine used to make holes in materials.
Emery cloth		Emery cloth is especially helpful in eradicating rust, eliminating corrosion, polishing metal and removing paint from metal surfaces.
Wet & dry paper		A waterproof backing paper coated with abrasive. Used wet or dry for sanding paint, primer and body filler. Coarser grades are ideal for removing major imperfections.
Indelible Marker pen		An indelible marker is a type of marker pen that is used to create permanent or semi-permanent writing on an object.

D: Health and Safety

1. listen to your teacher's instructions
2. always wear an apron
3. long hair should be tied back
4. don't use any equipment you have not been shown how to use by your teacher
5. always stand up during practical lessons
6. when using machines always wear safety glasses
7. always carry tools pointing downwards
8. only use the stop button in an emergency
9. work quietly and be sensible and careful at all times

TYPES OF WOOD



HARDWOOD

Ash, beech, birch, cherry, elm, mahogany, oak, sapele & teak

SOFTWOOD

Cedar, fir, pine and spruce.

KEY VOCABULARY

Vice
Process
Cutting
Filing
Smooth
Workbench
Accuracy
Measurements
Template

MANUFACTURED BOARD

Chipboard, MDF (Medium Density Fibreboard), blockboard, plywood and hardboard.



Each half term you will be given a new knowledge organiser.

This covers all the skills needed for that half term.

You will be given a little section of this to learn each week as part of your homework.

**We are looking forward to seeing
you at the Holgate Academy in
September**