

# YOUR FUTURE

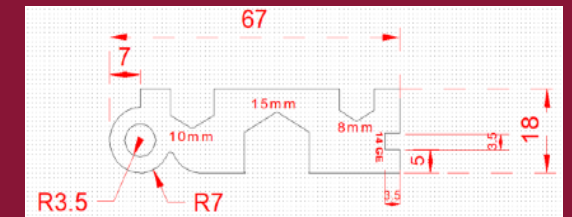
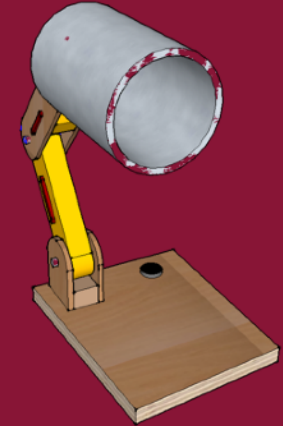
AT GOOLE ACADEMY

# Design & Technology DT



# What is DT?

We believe that Engineering and Design and Technology are subjects that can help us to understand and give meaning to the world we live in. Through our curriculum we aim to provide students with an experience that is exciting and ensure that our students combine practical and technological skills with creative thinking.





**Mr Poulton**

Head of DT



**Mr Maddison**

Technician



**Ms Britcliffe**

DT Teacher



**Mrs Isle**

DT Teacher

## Electrical engineer

Electrical engineers design, build and maintain electrical systems, machinery and equipment.

You could work in different industries, from power and renewable energy to transport, construction and manufacturing.

You can improve your career prospects with incorporated or chartered engineer status. Chartered status can help you move into electrical design and project management roles, specialise in a particular field, or work as an engineering consultant.

## Chef

Chefs prepare, cook and present food in hotels, bars and restaurants.

With experience, you could progress to section chef (station chef) and look after a particular area like desserts. The next step is sous chef, running an entire kitchen when the head chef is busy.

As head chef (also known as chef de cuisine), you'll run a kitchen, create menus and manage the budget.

You could move into the business side by taking a foundation degree or degree in hospitality management.

Very large establishments have executive chefs, usually in charge of multiple outlets. This is a management role and you would do very little cooking.

## Catering manager

Catering managers run the food service of organisations including restaurants, bars, schools, colleges and outside suppliers.

In your day-to-day tasks you may:

- plan and develop menus to increase sales
- recruit and train staff
- organise shifts and rotas
- plan finances, manage budgets and stock control
- meet suppliers and negotiate contracts
- monitor the quality of the service to customers
- run the business in line with health and safety and food hygiene regulations
- cater for special diets and to meet nutritional needs

## Robotics engineer

Robotics engineers design and build machines to do automated jobs in industries like manufacturing, aerospace and medicine.

You could:

- research what customers want to automate
- design processes and parts using computer aided design
- build and test prototypes
- analyse data from robot sensors and cameras
- write technical reports on project progress, risks and issues
- find and fix faults
- research new ways to use robots and artificial intelligence
- demonstrate finished products to customers

## Civil engineering

Civil engineers design, manufacture, install and test bridges, tunnels and other structures.

Can you build a structure out of paper that can support an unopened tin can of food?

The support has to cover a 500mm span and only sellotape and paper can be used.

Will your structure be able to support the weight or will it twist and collapse.

## Bake off

Can you design and make some cakes or biscuits that are themed for your favorite sport?

Think about healthy eating and nutritional value.

This task must be done with an adult in order to make and bake the cake / biscuits to perfection.

What about themed decoration?

## Buildings for the future

Can you design a building for the future?

How tall does it need to be and how will it be powered?

How can you make it environmentally friendly?

What materials can be used that are environmentally friendly?

Can waste from the house be used somehow?

Can you think of ways to generate electricity?