

ENGINEERING AND AUTOMOTIVE BROMSGROVE CAMPUS

SUMMER PROJECTS
YEAR 11 STUDENTS

ELECTRICAL INSTALLATION:
LEAFLET DESIGN



HEART OF
WORCESTERSHIRE
COLLEGE

KICK START YOUR STUDY AT HOW COLLEGE WITH ONE OF OUR CURRICULUM BRIDGING PROJECTS

Background:

Electrical Installation covers a wide variety of subjects and includes a number of specialist areas. One of the subject areas in Electrical Installation that all Engineers will need to study to gain background knowledge is Electrical and Electronic Principles.

As part of your Electrical Installation course at Heart of Worcestershire College, you will study units on Electrical Principles.

Tasks:

Throughout the year at Heart of Worcestershire College, staff regularly visit schools to talk about opportunities within engineering to students in Years 10 and 11.

We would like you to produce a leaflet with all 5 tasks together that we could hand out to students providing easy to understand information about Electrical Installation.

Key information to include:

- Write an introduction giving an explanation and basic understanding of Electrics and where it is used.
- Explain what voltage, current and resistance are (include symbols and SI units).
- Explain what the Ohms law is and give the formula.
- Find examples of at least 5 different electrical components (e.g. speaker, capacitor, LED, etc.), and explain what they are.
- List the types of careers and jobs available to an individual with Electrical knowledge.

Use the internet to help with your research. Here are a couple of examples to get you started:

bbc.co.uk/bitesize/guides/zbj8jty/revision/1

learnabout-electronics.org/Resistors/resistors_11.php

Remember:

- Try to be as creative and engaging as possible.
- Use images, diagrams and pictures.
- The leaflet needs to be double sided and A4 in size.
- You can use PowerPoint or Word to produce the leaflet.

Indicative time for this project:

We would suggest the whole project from start to finish (including research) should take you around 15 hours.

Instructions on how to submit this:

You can email your submission to:

e. engineeringbroms@howcollege.ac.uk

How will I benefit from this project:

You will gain a basic understanding of Mechanical Engineering Principles that you will use to build upon when you start the course at HoW college in September.

What can I expect to get back after I submit my project work:

You will receive a feedback from our expert tutors on the start of your course in September.

Key information you should include:

Your name

Your email address

A contact telephone number