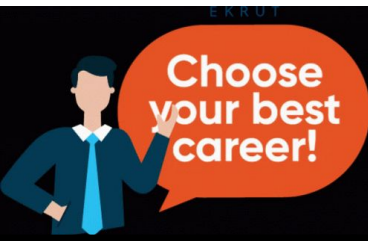**Eastlea** COMMUNITY SCHOOL

"Design is intelligence made visible."

ALINA WHEELER

Design and Technology

Now put on your invisible Virtual Reality (VR) device and let's explore the future…

Biomedical Product Development

Illustrator

Mobile Phone Design and Manufacturing

Architecture

Animation Designer & Developer

Structural & Civil Engineering

Aerospace Design and Engineering

Graphic designer

Computer Games Designer

Automobile Designer

Product Designer

Aerodynamic design and engineering e.g Formula 1

Fashion Designer

Costume Designer

Interior Designer

Where could Design and Technology lead me?

GCSE Design and Technology is an exciting pathway that leads you into careers such as: fashion, engineering, architecture, information technology, hospitality, and even education.

After completing your GCSE, you could go further and complete A Level qualifications in Design and Technology subjects such as: Graphics Design, Product Design, Fashion Design, Engineering Design or apprenticeship in related fields.
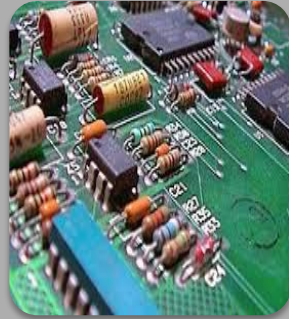
Electronics, Systems and Control

Textiles Technology

Graphic Products

Product Design

TECHNOLOGY

Strong team, rich curriculum

At KS3 you have learnt the basic skills in designing, making, and acquired knowledge and understanding in core technical topics. These form the foundation for KS4.

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At KS4, you will go further to acquire in depth knowledge in all these areas of the curriculum, then apply them in producing design solutions to solve real life problems, make appropriate decisions in material selections for manufacturing. You will also learn about evaluating a product, impact of products and other related factors.

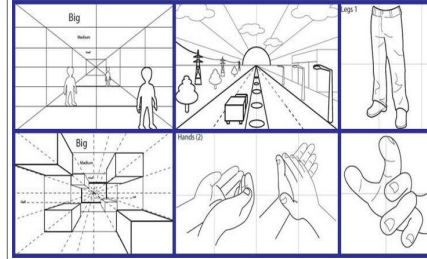You will be able to focus on two specialist areas in Year 10, then one in Year 11.
These are the specialist areas: In year 10 you will do either PAIR 1 or PAIR 2.

PAIR 1:
 Electronics Systems and Control and Product Design(Wood and Timber or Metal or Polymers).

PAIR 2: Textiles Technology (Fabrics and Textiles) and Graphic Products (Papers and Boards).
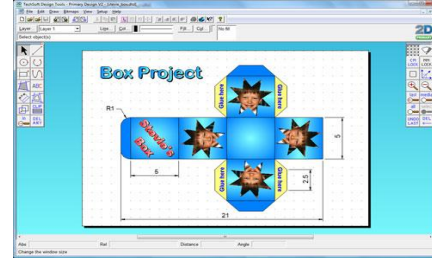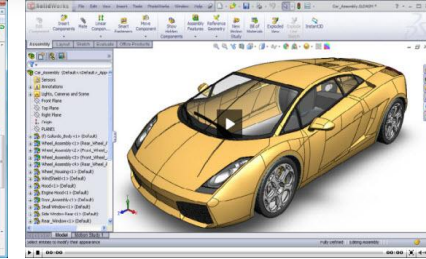
What is involved?

Basic Hand Drawings

CAD- 2D Drawings

CAD 2D-3D Drawings

Photoshop

Using tools and equipment e.g: 3D printers, laser cutter etc.
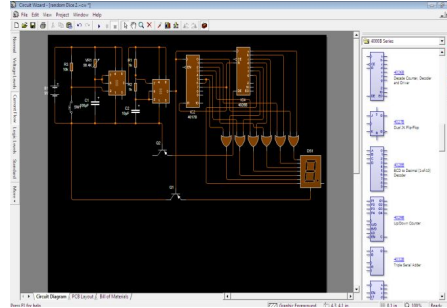
Making products

What is involved?

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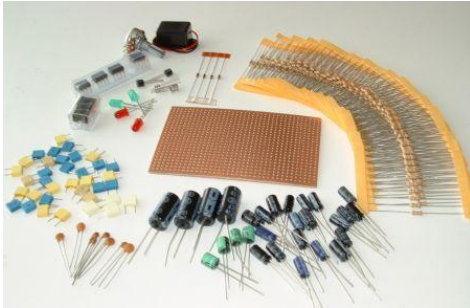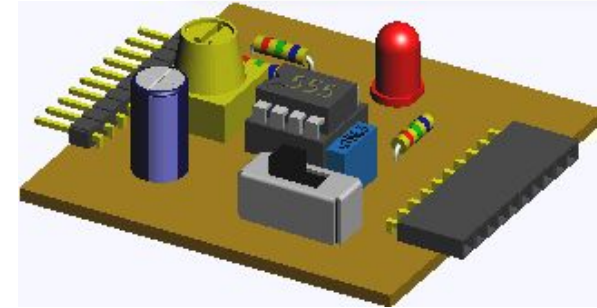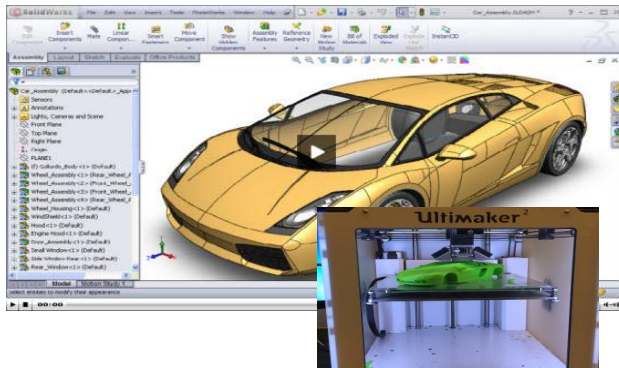
Knowledge of circuit components

Designing & simulating circuits

CAD Modelling of circuits

CAD/CAM design & Modelling

Using tools and equipment
e.g; 3D printers, laser cutter etc..

Making products

How will I be assessed?

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In year 10, you will do a number of assessments and in year 11 you will sit your Mock exams and complete your GCSE. The two boxes below show how will be assessed at GCSE.

Paper 1
What is assessed:

- Core technical principles
- Specialist technical principles
- Designing and making principles
- How it's assessed

Written exam: 2 hours
100 marks
50% of GCSE

AQA
Realising potential

Non-Exam Assessment (NEA)
What is assessed:

Practical application of:

- Core technical principles
- Specialist technical principles
- Designing and making principles

How is assessed?
Non-exam assessment (NEA):
30–35 hours approx
100 marks
50% of GCSE

Who may I ask for more information?

For more information, please contact Mr Z David or any Design and Technology Teacher. You can also send an email to:
zacharias.david@eastlea.newham.sch.uk
info@eastlea.newham.sch.uk
Telephone:02075400400