SUBJECT: GCSE DESIGN AND TECHNOLOGY

HEAD OF DEPARTMENT: Miss G Thomas	SYLLABUS NUMBER: 8552

SYNOPSIS OF CONTENT

The new Design and Technology GCSE consists of a two year intense course where you will study a wide range of materials including papers and boards, timber, metals, polymers and textile fibres and fabrics, you will also develop an understanding of systems and mechanisms to support any potential design solutions you may develop later on.
You will also learn about wider design principles and the affect of design on users and the world we live in.
You will then develop a deeper knowledge and understanding of specific materials and related techniques and processes, in order to construct working prototypes and achieve functioning design solutions; through the study of existing design solutions.
You will complete an iterative design challenge where you will 'explore' real needs and contexts, 'create' solutions and 'evaluate' how well the needs have been met and the problem solved. "Explore, create, evaluate" is a process that occurs repeatedly as design iterations are developed to continually improve the outcome, building clearer needs and better solutions, meaning ideas and prototypes can be developed into successful products in the future.
The GCSE content requires you to apply mathematical and scientific knowledge, understanding and skills.

RESOURCES

http://www.technologystudent.com
Design and Technology student.
https://www.data.org.uk
Design and Technology Association
https://www.stem.org.uk
STEM learning.
http://designmuseum.org
The Design Museum

SETTING ARRANGEMENTS

Students to be placed in mixed sets working with differentiated material.
Students to demonstrate progression through KS3 in order to sit course.

ASSESSMENT

Exam based - 50% of GCSE
What's assessed
• Core technical principles
• Specialist technical principles
• Designing and making principles
How it's assessed
• Written exam: 2 hours
• 100 marks

Non Exam Assessment (NEA) - 50% of GCSE
What's assessed
Practical application of:
• Core technical principles
• Specialist technical principles
• Designing and making principles
How it's assessed
• Approximately 30–35 hours
• 100 marks

What should students produce
• Substantial design and make task.
• Assessment criteria to include the following:
• investigating • designing
• making
• analysing and evaluating.

SELF STUDY ADVICE

Enhance your understanding of the subject by carrying out self guided projects to develop both design and modelling skills.
Attend stretch and challenge study group for additional support at lunch time and after school.

EXTRA CURRICULAR OPPORTUNITIES

V & A visit
Design Museum visit
After School - help clinic
http://www.100percentdesign.co.uk - 100% design exhibition.