

Year 9 – Design Technology

What will be studied?

Topic(s)

Design Technology

Autumn Term: Mechanisms: Mechanical Toy.

Motion, Mechanism, Cams, Types of wood and working properties, Isometric drawings, Design ideas, Manufacture, and Evaluation.

Winter Term: Ergonomics and Anthropometric.

Types of Polymers, Primary and Secondary research, Anthropometric data, Ergonomic design, Finishing Techniques, Quality check and Quality Assurance.

Spring Term: Electronics - Desk Fan

Making informed choices, Input devices, Output devices, Components, Soldering techniques, Shaping Plastic, Vacuum form, Circuit diagrams, Testing device and Evaluation.

How do you assess the learning?

Through the measuring of pupils designing, making and evaluating a product. Students are also given home learning to support lesson content.

End of Year Examination

How will I be assessed at the end of the year?

Pupils sit a 1 hour written exam at the end of the year.

How can I help my child?

Guidance and advice

Product Design:

- Encourage visits to Design Museums as this can inspire your child creatively.
The Design museum Kensington
<https://designmuseum.org/>
V&A Design Museum
<https://www.vam.ac.uk/>
Exhibitions eg. NEC Birmingham/ Olympia & Earls Court London.
- Encourage your child to try assembling any DIY furniture.

- There are plenty of design programmes that your child can gain inspiration from.
<https://www.bbc.co.uk/programmes/m000jk7p>

Grand Designs

<https://www.channel4.com/programmes/grand-designs>

How it's made

<https://www.youtube.com/watch?v=jDrn5orS9oo>

How to make BBC iplayer series

<https://www.bbc.co.uk/iplayer/episode/m000gwzd/how-to-make-series-1-1-the-trainer>

- Encourage your child to practice sketching
https://www.youtube.com/watch?v=c_NRuzPs9R8
<https://www.youtube.com/watch?v=laPwhWBj77o>
<https://www.youtube.com/watch?v=bjEw-mulcjA>
- For revising topics
<https://www.bbc.co.uk/bitesize/examspecs/zby2bdm>
(Design technology area)