



**KING EDWARD VI
CAMP HILL
SCHOOL FOR BOYS**



Supercurricular Design & Technology



Study Websites

Basic concepts put over easily - www.technologystudent.com
BBC bitesize - D&T - AQA - www.bbc.co.uk/bitesize/examspecs/zby2bdm
Focus learning - Great animations and information for learning
- <https://www.focuselearning.co.uk/u/4666/hmpjraotFtiobFiCxaaesCDwCbxEhviob>

Councils

Design council - <https://www.designcouncil.org.uk/>
The Institution of Mechanical Engineers - <https://www.imeche.org/>
The Institute of Electrical and Electronics Engineers - <https://www.ieee.org/>
The Institution of Civil Engineers - <https://www.ice.org.uk/>

Organisations

Arkwright Engineering Scholarship - <https://www.arkwright.org.uk/>
Smallpeice Trust (Free and Cost courses) - <https://www.smallpeicetrust.org.uk/events>
Engineering Development Trust - <https://www.etrust.org.uk/young-people>
Year in Industry - <https://www.etrust.org.uk/the-year-in-industry>
Industrial Cadet Gold Project - <https://www.etrust.org.uk/ic-gold-readmore>

Museums

Design museum - <https://designmuseum.org/>
V&A (Victoria & Albert Museum) - <https://www.vam.ac.uk/>
BMAG (Birmingham Museum & Art Gallery)
- <https://www.birminghammuseums.org.uk/bmag/>
Thinktank Birmingham Science Museum -
<https://www.birminghammuseums.org.uk/thinktank>
Museum of the Jewellery Quarter - <https://www.birminghammuseums.org.uk/jewellery>
The National Space Centre - <https://spacecentre.co.uk/>
The Mechanical Art & Design Museum - <https://themadmuseum.co.uk/>
The Coventry Watch Museum - <https://www.coventrywatchmuseum.co.uk/>
Coventry Transport Museum - <https://www.transport-museum.com/>
The British Motor Museum - <https://www.britishmotormuseum.co.uk/>
London Transport Museum - <https://www.ltmuseum.co.uk/>
The Silverstone Interactive Museum - <https://www.silverstonemuseum.co.uk/>

Blogs and Audio recordings

Interesting Engineering - <https://interestingengineering.com/>
They made our world - <https://www.bbc.co.uk/sounds/brand/p033817j>
30 Animals that made us smarter - <https://www.bbc.co.uk/sounds/brand/w13xttw7>
People Fixing The World - <https://www.bbc.co.uk/sounds/brand/p04d42vf>
The design dimension - <https://www.bbc.co.uk/sounds/brand/b04t6nbr>
Designing a world for everyone - <https://www.bbc.co.uk/programmes/m000bcnf>
50 Best Design blogs - <https://www.shillingtoneducation.com/blog/50-best-design-blogs/>
15 Best Mechanical Engineering Blogs - <https://geniuslabgear.com/blogs/for-scientists/best-mechanical-engineering-blogs>

Social media channels

YouTube

How to sketch like an product designer - <https://youtu.be/iVy0qGqmKFU>
Industrial Design 101 - Beginning any project - https://youtu.be/BlubY5yL_rA
Sketch a day - <https://www.youtube.com/c/sketchadaydotcom>
Marker drawing of a Camera - <https://youtu.be/sieVSypwZCE>
Interesting Engineering - <https://www.youtube.com/c/Interestingengineeringofficial/featured>
TED Talks

- The Design of useful things (30+ talks) - https://www.youtube.com/playlist?list=PLOGi5-fAu8bEQFq_0nUqXg5OTzPf4rTgM
- Design for all 5 senses - <https://www.youtube.com/watch?v=N6wjC0sxD2o>
- The first secret of great design - <https://www.youtube.com/watch?v=9uOMectkCCs>

Arduino - <https://www.youtube.com/hashtag/arduino>

Intro to Arduino - <https://www.youtube.com/watch?v=1o6Q2QzmFvA>

Top 20 Arduino Projects - https://www.youtube.com/watch?v=GwYuixn_9Yg

Instagram

Follow these -

- thedesignw0rld
- design.workout
- anne goodman design
- Weekly Design Challenge
- Sketchadaydotcom
- Render weekly

Skills / Software

CAD

- All Autodesk software is free if you have an academic email account, <https://www.autodesk.com/education/home> and then click on “Get products” then “Get Started” and then “Create Account”. There are almost 50 Industry standard software for free but check out the following -
 - Autodesk Fusion 360 - 3D software for creating, testing, detailing and making your designs
 - It has an online editor - <https://fusion.online.autodesk.com/>
 - Autodesk CFD - Excellent and simple Fluid Dynamics (Can be used as a Wind Tunnel)
 - TinkerCAD - Is a super simple 3D modelling software **BUT** has an excellent electronics simulation software built in - <https://www.tinkercad.com/>
 - MAYA - 3D animation, modelling, simulation, and rendering software for film, games, and TV
- Techsoft 2D Design v3 - Download a free copy for home - <https://www.techsoft.co.uk/products/software/techsoft-design-v3-download> ask a DT teacher for the licence code
- Siemens Solidedge - https://www.plm.automation.siemens.com/plmapp/education/solid-edge/en_us/free-software/student Free 3D CAD software for students.

Microcontrollers

- Arduino - <https://www.arduino.cc/>
- Raspberry Pi - <https://projects.raspberrypi.org/en>
- Microbit - <https://microbit.org/>