

Department Enrichment

Activities to Support Learning

Watch it



Follow the links to documentaries/ programmes/online tutorials that will support learning.

Famous and influential engineers

Isambard Kingdom Brunel documentary

<https://www.youtube.com/watch?v=c5zHw1IYXOE>

Henry Ford documentary

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

James Dyson Documentary

<https://www.youtube.com/watch?v=XBzk3G0c1kU>

How it's made videos

<https://www.youtube.com/channel/UCWBkudOTaVbvkcBc0pyZFMA/video>

[s](#)

Designing

Engineering drawing

<https://www.youtube.com/watch?v=1Hm5Zyimjac>

The design process

<https://www.youtube.com/watch?v=W-eqjMc1Efs>

6 R's of sustainability

<https://www.youtube.com/watch?v=luE5Aeqif1Q&t=1s>

Sustainability

<https://www.youtube.com/watch?v=ZImJYyj6SAY>

Basic electronics

https://www.youtube.com/watch?v=6UTOTgbJ_8E

Ohms law

https://www.youtube.com/watch?v=fGI9d0CjI8s&list=PLYS_1wOFFIANdG78JyJu3tsumsXVlcXUB&index=2&t=0s

Materials

Woods

https://www.youtube.com/watch?v=SDF5_1KjWzE

Plastics

<https://www.youtube.com/watch?v=W6MpudfyGc>

Manufacturing

Wood joints

<https://www.youtube.com/watch?v=2AuIm7hDRQ0>

Hand tools

<https://www.youtube.com/watch?v=7LBv2UW0I4Y>

Health and safety

https://www.youtube.com/watch?v=DBRynvTh_Ms

Videos exploring many area of design and engineering

http://www.technologystudent.com/despro_flsh/vid_channel2.html

Explore it



Have a look at the following websites. There are lots of activities, quizzes and materials that may help to develop your knowledge and understanding of the subject.

Independent learning information and worksheets

Basic workshop equipment

http://www.technologystudent.com/despro_fls/mats_basiceq1.html

Identifying problems and designing solutions

<https://www.twinkl.co.uk/resource/t3-dt-3-identifying-problems-and-designing-solutions-activity-pack>

Technology push and pull

<https://www.twinkl.co.uk/resource/t3-dt-19-product-analysis-technology-push-mobile-technology-activity-pack>

Design styles

<https://www.twinkl.co.uk/resource/t3-dt-4-designers-and-design-styles-activity-pack4>

Mr DT resources

<http://www.mr-dt.com/>

Box learning exercises from Technology Student

http://www.technologystudent.com/despro_fls/boxlearning1.html

Try it



Why not challenge yourself and complete one of these extension tasks?

Timbers and plastics leaflet

Produce a leaflet for year 6 primary school pupils about timbers and plastics. Make sure to cover the main categories of timbers and plastic as well and the properties and uses for specific types of timbers and plastics. Make sure to include images.

Pairing cards

Create some pairing cards to help revise and memorise timbers and plastics. For example you might want to make 10 different timber cards each with a different type of timber and 3 category cards to match them up to such as hardwood, softwood and manufactured boards. You can do the same with plastics and their categories too. You can expand further by creating property card, uses cards and manufacturing process cards.