

Year 11 Design and Technology resources for year 12 readiness

Videos

TED Talk links:

- [Showing a series of inspiring, unusual and playful products, British branding and design guru Paul Bennett explains that design doesn't have to be about grand gestures, but can solve small, universal and overlooked problems.](#)
- [Designer Philippe Starck -- with no pretty slides to show -- spends 18 minutes reaching for the very roots of the question "Why design?" Listen carefully for one perfect mantra for all of us, genius or not.](#)
- [A story, a work of art, a face, a designed object -- how do we tell that something is beautiful? And why does it matter so much to us? Designer Richard Seymour explores our response to beauty and the surprising power of objects that exhibit it.](#)

More 4 Documentary: 'How to build British' With access all areas to the Bentley factory, we see the luxury car manufacturer build a new £170k Continental GT from the bare-metal bolts to the finished car. Other videos soon to be online too! [Bentley](#)

BBC Documentaries

- How Walter Gropius's experiences of World War I led him to found the iconic German art school, the Bauhaus. [Bauhaus 100](#)
- Jonathan Meades investigates the architecture of Mussolini's Italy. He finds a dictator caught between the forces of modernism and a revivalism that harked back to ancient Rome. [Ben Building](#)
- Filmed over five days, this film reveals the complex, time-consuming processes involved in creating a Windsor chair, made by Jim Steele in his Warwickshire workshop. [Windsor chair](#)
- First transmitted in 1969, this is the story of the construction of the world's most advanced underground system where automated trains are driven along hand-finished tunnels. [Victoria Line](#)
- First transmitted in 1979, this programme looks at the Rainhill Locomotive Trials in 1829, and attempts to rebuild Stephenson's 'Rocket'. [Stephenson's Rocket](#)

Reading

Recommended reading for preparing for A-Level – [New text book link](#)



Drawings Skills

Sketch a day YouTube channel with Spencer Nugent. Brilliant step by step videos to improve sketching and rendering techniques on paper. Truly inspirational, well made clear videos.

[A good place to start is this tutorial for how to draw a tape measure.](#)

[Link to all his videos, pick anyone you like and practice your drawing skills. Try and do one a day.](#)

Design related Course

<https://www.futurelearn.com/courses/creating-the-amazing-engineering-the-future>

Challenge: Innovation through design Think, Make, Break, repeat. Through the University of Sydney.

Throughout the course, you will follow us through three of Australia's most exciting design offices and learn from practicing designers and leaders in design. This insight into industry will enable you to develop a comprehensive understanding of design and the role it can and does play within the innovation landscape. You will leave this course with a set of practical tools and techniques to apply to situations within your own professional context, to translate problems into opportunities and solutions, and ultimately to innovate through design.

[Click on this link to go to a video overview of the course](#)

<https://www.coursera.org/learn/innovation-through-design#about>

Product Analysis skills

Choose a product from home that you can take apart. Deconstruct it to learn more about the product by taking it apart but only if you have permission to do this! Create a short A3 portfolio in PowerPoint that includes the following areas, you will need to conduct careful research to boost your understanding here too:

1. Title page with the title 'Product Analysis' and phot of the product.
2. Photos of the steps of taking it apart and what the components/methods are that hold it together.
3. How it functions highlighting and describing the key components and how they work in isolation and together as a system.
4. The materials used and what key properties they have that make them fit for purpose (A good choice for that specific part)
5. Processes (methods of making such as injection moulding or Milling) used for at least 3 key parts with research into the main steps carried out for each process identifies with sketches of the step/photos/diagrams etc.

Design skills

Re design a product in the style of a Designer from the movements below. This will help you improve you learn about the key movements in the A-Level Specification while developing design skills of working in the style of another to recreate a product you enjoy. Firstly, create a mood board of your chosen designers' key pieces. Then, pick out at least five common characteristics of the designer's so you have a clear idea of what their style is about.

- Arts and Crafts – William Morris
- Art Nouveau – Charles Rennie Mackintosh
- Bauhaus Modernist – Marianne Brandt
- Art Deco – Eileen Gray
- Post Modernism – Philippe Starck
- Streamlining – Raymond Lowey
- Memphis – Ettore Sottsass

['Life Cycle Analysis' \(LCA\)Task link](#) This is a few hours of work that gets you thinking about the life of products from Cradle to Grave. This is an important Topic that is in the A-Level specification.

