

# BRING D&T AND TEXTILES TO LIFE

pumpkin  
INTERACTIVE

D&T / TEXTILES

*with our award winning films!*



Endorsed for GCSE and GCE by UK and  
International awarding bodies

Educational video content for schools

[www.pumpkin-interactive.co.uk](http://www.pumpkin-interactive.co.uk)

## Designing with Recycled Materials



£40

Code: **DESRM** 33 mins | 2009 | Age 14-19+



Working with recycled materials creates unique challenges for designers. For example, how can you make stackable chairs from recycled Sony PlayStations or turn discarded fridges into new washing machine parts? This resource explores the issues of large-scale plastics recycling as we see how different plastics are separated, recycled, regenerated and tested to ensure they meet the required characteristics for modern sustainable products.

## Choosing Sustainable Materials



£40

Code: **SUSMA** 26 mins | 2009 | 14-19+



What are the social, economic and environmental choices to consider when designing a product? This resource gets students thinking about: the 6Rs; what makes a material sustainable; the difference between renewable and recycled materials; and what happens at "end of life". It visits the UK's first zero carbon housing project and shows how anything from mobile phone covers to children's wellingtons can be turned into building materials.

## Sustainable Packaging



£45

Code: **SUSPAC** 31 mins | 2010 | 14-19+



A container should protect a product, attract customers, be cheap to produce and satisfy consumer demand for goods with low carbon footprints. See how designers are meeting these goals by; reducing packaging, choosing more recycled materials and in some cases completely rethinking a product's design. Also illustrates how different plastics are separated and refined into reusable polymers before being formed into containers.

## Sustainable Design: Life Cycle Assessment



£40

Code: **VOLCA** 26 mins | 2009 | Age 14-19+



A fantastic illustration of how industry is adapting design and manufacturing methods to consider social, moral and ethical implications. An invaluable resource for any D&T course where students need to understand the issue of sustainability, not only in the context of their work, but also in the world around them. The resource provides concrete examples for written examinations, as well as covering many of the issues required during controlled assessment tasks.

## Smart Resistant Materials

Code: **SRM** 35 mins | 2011 | Age 14-19+

**£49**

Promote discussion about the characteristics, functions and potential applications of smart resistant materials with this resource that provides extraordinary access to the latest developments in this field. Case studies include: shape memory alloys, thermochromatic plastics and inks and QTC. Ideal preparation for written examinations, while also providing an excellent starting point for students' own design and make tasks.



**“A Superb resource as it provides in-depth understanding, clear images and commentary.”**

Brian Russell, Chief Examiner/Principal Moderator



## Smart Graphic Products

Code: **GRAPHIC** 30 mins | 2012 | 14-19+

**£49**

This DVD examines the properties, characteristics and applications of some of the smart materials used in the graphics industry. Case studies include labels and packaging that use thermochromatic inks, emergency and safety signage that incorporate phosphorescent and fluorescent paints and inks, and photochromic dyes that are used for anti-counterfeiting measures and reactive glasses.



**“I thought the DVD was brilliant.”**

Mike Nowell, Chief Examiner/Principal Moderator,  
AQA GCSE: D&T Graphic Products



## How Alessi, Postmodernism and Memphis changed the world



Code: **ALESSI** 40 mins | 2012 | Age 14-19+

With access to Alberto Alessi, and the Alessi factory and design museum in Milan, this resource provides a fantastic guide to the diverse ideas, designs and innovations that developed during the postmodern era.

## How Pop Art changed the world



Code: **POPART** 40 mins | 2012 | Age 14-19+

What is Pop Art and how does it influence designers today? Explore the ideas, materials, colours and technologies adopted by Warhol and Lichtenstein and see how they can be incorporated into students' own work.

## Product Design and Mass Manufacture: Design Optimisation



Code: **DESOPT** 25 mins | 2009 | 14-19+

A complete product design course in a single resource. This DVD provides a detailed and captivating guide through the development of a new product from client brief to finished product.

## Designing for the User: Inclusive Design



Code: **USER** 32 mins | 2010 | Age 14-19+

Learn how designers research and understand their users' needs as we see how they work with ergonomic and anthropometric data and respond to demographic change. A fantastic introduction to product development.

## Product Design, Testing and Modification: Trunki



Code: **TRUNKI** 25 mins | 2009 | Age 14-19+

A resource that covers much of the product design specifications. Human factors, safety, quality, design in practice, continuous improvement and modification are all clearly explained and with a product that is so simple to understand.

## Industrial Design and Testing



Code: **VOIS** 25 mins | 2009 | 14-19+

See how Volvo's designers ensure that aesthetics, feel and performance are not comprised for new safety enhancements. Exciting crash test footage will also benefit students as they come to test and evaluate their own designs.

## Interactive, Smart and Modern Textiles

Code: **INTTEX** 42 mins | 2012 | 14-19+

**£40**

Introduce students to new and key aspects of interactive and smart textiles with this resource. It draws examples from a wide range of textile products that students will easily identify with, from clothing to tents, ballet shoes to bags. Examples include wearable electronics, conductive polymers and Kevlar. Use this DVD to explore their characteristics, functions and applications.



**“A great resource, which enhances the knowledge base for the emerging and growing area of interactive smart textile design.”**

Just4Textiles



## Smart and Technical Textiles: The Next Generation

Code: **SMATEX** 57 mins | 2008 | Age 14-19+

**£40**

A new generation of industrial materials is changing how textile designers think about and work with textiles. This title examines the construction, properties and applications of these new smart and technical textiles, from the carbon fibre composites used in aircraft wings, to the materials used to ensure a Formula One car crumples upon impact rather than crushing its driver. With examples drawn from the space, aeronautical, automotive, medical and geo-textiles industries, this resource provides a fantastic insight into how new technologies and processes are combining with traditional textiles to create increasingly smart and more technical products.



**“This is the best, clearest and most useful DVD I have ever come across.”**

Janet Kidd, Duchess's Community High School





## Ethical Textiles



£45

Code: **ETHEX** 26 mins | 2011 | Age 14-19+



Filed in Bangladesh, this is a fantastic resource that looks at the globalisation of the textile industry. Using eye opening footage shot inside a number of Bangladesh textile factories, the film explores the issues of sweatshop labour - including poor working conditions, unfair wages and the right to unionise. The programme then compares the social impact of this mass-scale production with the benefits brought to a small rural community in Bangladesh by a fair trade textile initiative.

## Textiles: Environmental Impacts



£45

Code: **ENVTEX** 26 mins | 2011 | 14-19+



What are the environmental impacts of our global textile industry? In Bangladesh, the film shows how the true cost of cheap textiles is being felt by the very poorest living downstream from polluting textiles factories. While in the UK, the resource looks at how companies are working to reduce their impact by using state of the art water recycling plants and by making better use of their waste streams.

## Textiles: Eco Design



£49

Code: **ECOTEX** 30 mins | 2011 | Age 14-19+



How are textile companies meeting consumer demand to develop sustainable collections? Follow surf wear brand Finisterre, from their HQ in Cornwall to their fabric suppliers in Japan and manufacturers in Portugal, as they explain how they reduce their environmental and ethical impact by rigorously evaluating the use of energy and materials throughout their design and manufacturing stages.

## Sustainable & Recycled Textiles



£40

Code: **SUSTEX** 34 mins | 2009 | 14-19+



Throwaway cut-price garments make up nearly half the clothing market, resulting in a rising tide of textile waste. This programme profiles textile designers who are turning consumer demand for green products into fashion trends. Case studies include: shoes made from old tyres and seatbelts; high fashion tailoring created from second hand shop finds and textiles for the construction industry made from reprocessed jute sacks.

## ICT in Textiles: Design, Practice and Process



£40



Code: **ICTTEX** 27 mins | 2007 | Age 14-19+

With new collections now being turned around in weeks, see how ICT is revolutionizing fashion, speeding up the creation of designs and physical mock ups and easing communication with global partners.

## CAD/CAM in Textile Manufacturing



£40

BEST SELLER



Code: **CADTEX** 27 mins | 2007 | 14-19+

Learn how CAD/CAM is being used across a range of textile industries, from commercial digital printing and embroidery, to knitting and laser cutting, as designers explain how it is changing the way they work.

## Textiles: Industrial Finishing Processes



£49

BEST SELLER



Code: **FINTEX** 30 mins | 2011 | 14-19+

Explore the physical, chemical and smart finishes that are enabling textile engineers to radically enhance the performance of materials. Learn how they are created and see examples of their many commercial applications.

## Textiles: Mass Production Systems and Techniques



£40

BEST SELLER



Code: **MPTTEX** 27 mins | 2007 | Age 14-19+

This DVD covers: job, batch, mass and JIT production systems and includes: hot drill, pattern laying, straight, rotating blade and computerized laser cutting. It also covers assembly and how CAD/CAM is used in quality control.

## Testing Textiles



£40



Code: **TESTEX** 33 mins | 2005 | Age 14-19+

A fantastic insight into the range of tests carried out to ensure garments are fit for purpose. We see examples of performance and physical wear tests, as well as tests to ensure fabrics are flame resistant, waterproof and breathable.

## Textiles: Industrial Dyeing and Printing



£40



Code: **DPTTEX** 33 mins | 2005 | Age 14-19+

Provide students with examples of a wide range of industrial printing processes, including: flatbed, carousel, roller-screen and transfer. Then, see how dye recipes are created and how the environmental impact of waste products is managed.

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## About Pumpkin Interactive

Pumpkin's DVDs are high quality, specification matched and tailor made for the teaching of GCSE and GCE D&T. Produced by our team of ex BBC film makers and created in consultation with D&T specialists, our films support the delivery of core conceptual knowledge through the use of stimulating and relevant real world examples.

Watch previews and see how our video content matches your specification  
[www.pumpkin-interactive.co.uk](http://www.pumpkin-interactive.co.uk)

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