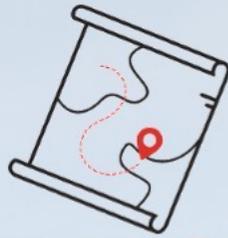




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DESIGN TECHNOLOGY AND ENGINEERING



EXTRA-CURRICULAR

YEAR GROUP

READ

WATCH

VISIT

7

Have a browse around <https://www.bbc.co.uk/bitesize> to read information about timbers, plastics, metals and fabrics to assist in their revision of the materials used across Technology.

Read some key journals and articles online which focus on recycling common waste. Suggestions are:

- [Click here](#) – Link 1
- [Click here](#) – Link 2

Watch this video on the attempts to **reduce plastic waste in the environment**:

- <https://endplasticwaste.org/en>

It will also be useful if you look at this **introduction to thermoplastics**:

- <https://www.bbc.co.uk/bitesize/topics/z63cdm/re-sources/1>

Museum of Science and Industry

Visit the three permanent galleries called 'Revolution Manchester', 'Connecting Manchester' and 'Textiles Manchester' and discover lots about the industrial innovations and scientific discoveries that changed the technological world.

Curriculum links to Physics, Biology and Chemistry. .

8

Browse this website:

- www.technologystudent.com

In particular, read the areas on the site that focus on 'Technology and the environment' and the 'Design Process'.

Brockholes

Read about the multi-award winning engineering and construction of Brockholes Nature Reserve on: <https://adamkhan.co.uk/projects/brockholes/>

<https://www.rspb.org.uk/birds-and-wildlife/advice/gardening-for-wildlife/creating-a-wildlife-friendly-garden/>

This video is about how to attract wildlife to your garden. It relates specifically to the design project you will undertake!

Dunham Massey

Have a wander around a space that the National Trust deliberately keeps as it was hundreds of years ago. Consider the impact of design and development on wildlife.

Brockholes Nature Reserve

A disused gravel quarry off junction 31 of the M6 might seem an odd setting for a pioneering construction project. But on a drained lake bed at the lowest point of the site stands a 2.25m high block of concrete covering an area more than half the size of a football pitch. Following construction the lake was reflooded allowing the entire structure should bob to the surface, topped by a visitor and education centre. Its an incredible area of beauty as well as engineering.

Curriculum links to Geography, Business Studies and History.

9

Look at the work of designers and local design companies on line that show the impact of designs upon the development of products and spaces in the local area – Manchester.

Fashion designers: [Click here for link](#)

Interior designers: [Click here for link](#)

Watch this YouTube clip on **Manchester and its architectural design:**

- <https://www.youtube.com/watch?v=0EWUbjjYos>

If you can travel further afield...

The most well-known museum in the country that focuses on design is The Design Museum in Kensington, London. The museum offers an introduction to the history of contemporary design with free display Designer Maker User, and opportunities to explore the present and future of design through a programme of temporary exhibitions and pop-ups. Exhibitions are constantly changing. Use the following link to see what's on:

- <https://designmuseum.org/exhibitions>

[Curriculum links to Creative iMedia.](#)

10

Eureka magazine is the go-to publication for design engineers:

- <http://www.eurekamagazine.co.uk/design-engineering-magazine/>

These clips are on a variety of design topics, and you will gain an insight into how to be creative when fulfilling a design brief:

- <https://vimeo.com/173358053>
- <https://www.youtube.com/watch?v=vacpiv8YDw>
- <https://www.youtube.com/watch?v=Gbeaew3F4cA>

[Curriculum links to Creative iMedia.](#)

- Visit the **Museum of Science and Industry (MOSI - Manchester)**. [Curriculum links to Science and Engineering.](#)
- **Bletchley Park**, once the home of the WW2 Codebreakers (Milton Keynes)
- **Salts Mill, Salford, Bradford**. This is a free exhibition space for the artist David Hockney. It often includes a daily exhibition of his digital art, and the narratives to support his use of the iPad as a digital tool for creativity, communication and business. It is also a UNESCO World Heritage Site that looks at Philanthropy; the history and geography of migrant workers, the UK and the changing world; and the use of public spaces to promote health and wellbeing. [Curriculum links to Humanities and Health Sciences](#)

Both of these places enable you to develop your understanding of Computer Science by looking at how it impacts on the wider world.

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Eureka magazine is the go-to publication for design engineers:

- <http://www.eurekamagazine.co.uk/design-engineering-magazine/>

Read this article called "The Future of Design":

- <https://www.wired.co.uk/article/the-future-of-design>

Watch a selection of videos on design that will help you to gain an insight into creative thinking and fulfilling a design brief:

- <https://www.youtube.com/watch?v=z0Pia5GwSA>
- <https://www.bbc.com/reel/video/p06yvmw9/the-amazing-homes-that-build-themselves>

During the Autumn months, Manchester hosted a Design festival. Visit this website and explore some venues:

- <http://designmcr.com/the-festival>

The national Festival of Making takes place in year in Blackburn. It provide a wonderful insight into our heritage and current manufacturing and engineering strengths in the region.

- <https://festivalofmaking.co.uk/>