

# **Raising aspirations – Design & Technology**

Design & Technology is a uniquely interdisciplinary subject that encourages practical problem solving, collaboration, empathy and creativity as well as both critical and analytical thinking. At OBA our practical projects allow students to develop and practice these emerging talents that will help build a generation of thinkers that can link imagination with tangible solutions. Is your mind curious? Are you quite often in awe and wonder of the technological advances in the world today? Do you ask many questions about how something works or operates? Do you want to dis-assemble products to find out? If so, the lists below could be of interest and help you to aspire to be a designer, engineer or innovator of the future sustainable world.

## **Suggested Reading list**

### **KS3 (years 7-9)**

**Architecture for kids**, by Mark Moreno and Siena Moreno – If you're interested in Architecture, this book will introduce you to all of the most important terms and skills an aspiring architect needs

**Ultimate Paper Airplanes for kids**, by Andrew Dewar – Learn about the principles of flight, the forces that enable a plane to fly and things that affect performance. 48 pre-cut paper airplane models

**Mechanical Drawing** by Booksgeek – This book combines fundamental engineering principles with fun, hands-on activities that teach children how to draw and measure like real engineers.

### **KS4/5 (years 10-13)**

**The Design of Everyday Things**, by Donald A. Norman – The author reveals how thoughtful design can enhance user experience and explores how design impacts everyday life.

**Archidoodle: An Architect's Activity Book** by Steve Bowkett – Aimed at anyone who loves drawing buildings, it encourages the users to imagine their own creative solutions by sketching in the pages of the book

**Product Design Styling**, by Peter Dabbs – With annotated illustrations, the author provides an insight into the professional styling process. You will learn how to analyse and critique your own work, and the work of others.

## **Websites**

**Title** GCSE Design and Technology - Edexcel - BBC Bitesize- A great revision tool if you are already embarking on GCSE DT

**Title** :: Welcome to www.mr-dt.com - A Design & Technology Website ::- Learn about manufacturing wood joints and many other areas of DT

**Title** Tinkercad- Tinkercad is a free, online 3D modelling program. It is widely used for creating models for 3D printing, as well as for learning electronics and coding.

## **Podcasts**

**4 simple ways to have a great idea** – In this short, Ted talk, entertaining talk, writer and researcher Richard St. John makes the case that great ideas can come from surprisingly humble beginnings. 4 simple ways to have a great idea | Richard St. John

**James Dyson: A Story Of Perseverance** – James Dyson is a name that is synonymous with innovation and perseverance. His story is one of determination and resilience. James Dyson: A Story Of Perseverance

**Project Film – The story behind the YY London** – The brief was to highlight the YY story, why it's unique, the larger impact it has on the industry, touching on sustainability and how BGY has set the standard for large scale refurbishments. Project Film - The story behind the YY London