**Transition Work Pack Year 7 – Design and Technology**

When joining Prospect in Year 7 you will spend time researching and designing ideas and making them in the student resistant materials workshop.

**You will learn:**

* How to research current design and designers
* How to research a theme to get design ideas
* How to draw and label design ideas by hand
* How to draw ideas using CAD (Computer Aided Design)
* How to safely use tools, equipment and machinery in the workshop
* How to make design ideas using tools and equipment
* How to evaluate design ideas
* How to upcycle products

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| **Task 1**  Research these famous designers from around the world. What did they design?   * James Dyson Flag of the United Kingdom - Wikipedia * Philippe Starck Flag of France - Wikipedia * Alberto Alessi * Zaha Hadid | **Task 4**  Complete this tonal shading exercise.  <https://www.youtube.com/watch?v=vMr6eimcolc>  24 Best Tonal Shading images | Still life drawing, Drawings ... |
| **Task 2**  These tools belong in the workshop. Draw a picture of each tool and write what each one is used for.   * Hardwood and Brass Tri Square 3& x22; 75mm Dolls house Modelling ...Tenon Saw * Coping Saw * Mallet * Tri Square * Palm Sander * Screw Driver * G Clamp * Hand Drill | **Task 5**  Being in the school workshop means there are a lot of dangerous risks. Create a poster to explain x1 rule in the workshop to stay safe.  ***Helpful Hints:***   * Should we run or walk slowly in a workshop? * How should we carry tools? Down by our sides or wave them around? * Should we leave machinery switched on or off? |
| **Task 3**  Upcycling  Look at the website for upcycling ideas.  <https://www.boredpanda.com/creative-reuse-upcycling-repurposing-ideas/?utm_source=google&utm_medium=organic&utm_campaign=organic>  Research some more ideas on google.  Pick an item in your house to upcycle.  Draw your upcycle design idea.  Label the changes you want to make. | **Task 6**  Draw a design idea for a for **a new toy** for a four year old.  Research and label the materials.  What is it about the product that makes it suitable for a four year old?  ***Helpful Hints:***   * Different Materials – Plastic, Fabric, Wood ? |