**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?
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| **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 ?
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