

A Level Design & Technology
– Product Design
Thomas Telford School

Pre-course tasks

SESSION 3

- Choose **2** of the designers that you have researched over the previous 2 weeks
- For each, produce one page of design ideas of products, that are inspired by that designer's style. For example, your design could be lighting, furniture, an electronic device etc.
 - One page should contain 6 design ideas
 - You should annotate to explain a little about your idea
 - You may choose to do this by hand, on paper or you could sketch then scan or photograph your ideas onto a PowerPoint slide

EXEMPLAR DESIGNER INSPIRED SKETCHES

James Dyson

Page analysis - I did this page on James Dyson as I wanted to see how he came up with his designs for the vacuum and how he was inspired to make them from the side he did.

Design influence: from some leading brands, like Hoover, that were plagued with getting clogged and losing suction over time.

Design philosophy: Dyson is first and foremost an engineering company. Our main concern is engineering and commercial products that are more effective than those that are already on the market. Our motto means that simply, we constantly question the things that exist and we think about how we could improve them.

Designs: All engine Dyson that space heater, Dyson fan, hair dryer, Dyson vacuum cleaner, Dyson stick vacuum cleaner, Dyson green ball, Dyson Sea Truck, Dyson washing machines, hairdryer.

My opinion on James Dyson is that he is a designer who designs products which are functional to the consumer as well as looking aesthetically good.

James Dyson vacuum cleaner, the Cyclone 6 Series was the first true vacuum cleaner that he invented in 1983.

This design was used to be the largest innovative break through since the vacuum cleaner was first mentioned in the early 20th century.

James Dyson's first original invention, was the hairdryer. It was a modified version of a hairbrush but using a ball instead of a comb.

I took James Dyson 13 years and modified version of a vacuum cleaner to make his first vacuum.

Dyson's inspiration for the high speed air motor came from a British inventor, an American inventor and a German inventor. James Dyson's inspiration for the high speed air motor came from a British inventor, an American inventor and a German inventor. James Dyson's inspiration for the high speed air motor came from a British inventor, an American inventor and a German inventor.

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Design: James Dyson's design is a vacuum cleaner that uses a cyclone to separate dust from the air. The cyclone is a series of rotating blades that create a vortex of air. The dust is caught in the vortex and is then ejected from the machine.

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James Dyson designs

I was inspired by this product as the shape of the vacuum was a good shape for a lamp, but also I kept the lines which were engraved on the cylinder so that there was still the resemblance of a hoover on the product, showing where the inspiration originated from. This light would be a form of ambient lighting as it is a table lamp.



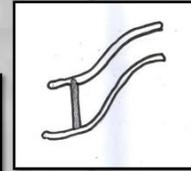
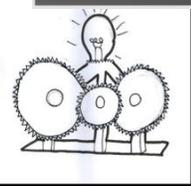
This water fountain inspired me to do something similar but as a light up fountain so that it would light up a garden, but it should also have the same idea of being a water fountain which is more of a centre piece. This product was very interesting as it is nothing like anything else James Dyson had designed.



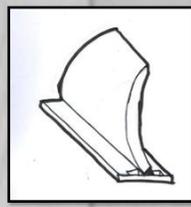
This design is one of James Dyson's fans and this inspired me to design a sensory light which is a circular bubble light that can be held and as well as that it is completely smooth so that the person using it wouldn't cut themselves on the light and it would be heatproof so it could be held for a long time.



I took inspiration from the cogs that James Dyson uses in the base of his hoovers as I thought the cogs can be used to make a light which was interactive as you would be able to turn the cogs which would turn the light on and if the cogs are turned the opposite way the light would turn off. This light design would be an example of an sensory light as it is interactive light so it would be calming to the person playing with the light.



The Dyson hand dryer inspired me to design a desk light in this design of a modern style and it has an interesting curve on the front of it which is what I took inspiration from for the shape of the light. James Dyson was a modern designer who definitely preferred function over form and that is what I added to my design as the light is a basic design but the angle can be adjusted to where you need the light to be focused.



Design ideas

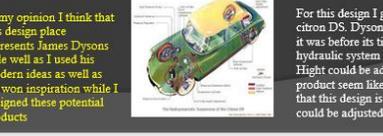
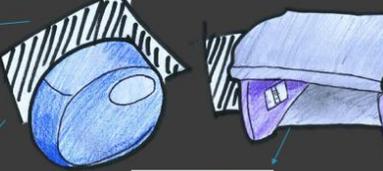
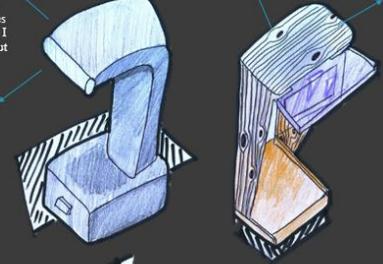
For this design I gained inspiration from Dyson's hoover. I liked the idea of the large curve of the handle so I added a lamp on the end of it added curvature to the design to show Dyson's modern style. This light would be made from acrylic as it leaves a modern look as Dyson uses. I believe this design as it is simple but it has a modern character.



For this design I gained inspiration for the bladeless fan. I liked the simple circle shape so I used it for my product this product would be hung on the wall and would be made from acrylic to look more modern and reflect the light. I believe that this product is simple and could do with more character.



For this design I was inspired by the harrier. I chose this as inspiration because James used it for his influence. I incorporated the harrier's wings down the side which act as a stability for the plane. I decided to render this design as oak to add class that contrasts the acrylic modern side of the flap. I believe this design compliments the harrier well.



For this design I again gained inspiration from the harrier but the back of the aircraft where the jet engines are. I used this shape as it seemed original and quirky. I made it suit Dyson's style by using the colours he uses on his work. This contrasts the design adding a serious modern look. The light is in the jet engine so when it turns on it will look a lot like the harrier. This product would be hung on the wall and made from acrylic.

