

## Product Design 7552 Yr 12 Summer Induction task – A3 presentation

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Your manager has asked you to **conduct primary** and **secondary** research into the **products currently available** and to suggest new concepts and solutions to help the design team develop the new product.

You **must** discuss **cylinder capacity** for the products and '**show mathematical formulae and calculations**' to compare products specifications. You should also discuss motor size and refer to electrical terms used to measure output. **Show your calculations** for the volume of a cylinder 15mm radius and 30mm length.

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1. Identify a **client** and detail their **needs and wants**.
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James Dyson is an influential designer in this area – **your opening paragraph** should refer to his design principles

<http://www.jamesdysonfoundation.co.uk/>

<https://www.dyson.co.uk/community/aboutdyson.aspx>

Your report should consider:

- Suction mechanisms
- Filters, cleaning and maintenance
- Waste removal and emptying
- Weight of device
- Tools and equipment / accessories
- Power supply
- Aesthetic quality – shape colour etc.
- Materials – plastic/metals etc.
- packaging

Your work should include:

- Images –perhaps of catalogues or shop items
- photographs of testing products –using your Hoover in your home
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