



Selecting a material

You have been asked to select an appropriate **material** for manufacturing a **turbojet fan blade.**

- Research the properties of each of the materials shown in the table.
- Select the most appropriate material for this application.
- **Justify** your choice.

Material type	Material
Ferrous metal	Cast iron
Non-ferrous metal	Aluminium
Alloy	Aluminium alloy
Polymer	Acrylic
Manufactured board (timber)	Plywood
Composite	Structural concrete





Now do this:

Produce a **presentation** of your findings. You should include:

- The material selected and why its properties make it suitable.
- Other factors, such as cost, environmental impact and machinability of the selected material.
- Information about the materials not selected and why they were unsuitable.