**3.1.2 Modern Materials**

* Be able to recognise a range of modern materials
* Know what Kevlar, Precious Metal Clay, High Density Modelling Foam and Polymorph are.
* Explain how modern materials can be used to   
  alter functionality

**What are modern materials?**

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| --- | --- | --- |
| Name | Features | Uses |
| Image result for kevlarKevlar |  |  |
| Image result for precious metal clayPrecious Metal Clay (PMC) |  |  |
| High Density Modelling Foam  Image result for High Density Modelling Foam |  |  |
| Polymorph  Image result for polymorph |  |  |

**EXAM QUESTIONS**

1. Why is Kevlar suitable for the sport of Fencing?

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2. What affect has precious metal clay had on small businesses?

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3. Why is high density modelling foam suited to CNC Routering?

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5. Evaluate the impact of polymorph in the development of products.

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6. How have modern materials made an impact on product design over the last 10 years?

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