



# Materials Practice 1 - Aluminium Can



	Aluminium
Advantages	
Typical Uses	

## Exam Question:

The can above has been made from Aluminium.

Describe the properties of this material when used for drinks cans? (3)

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## Materials Practice 2 - Xbox Controller



	ABS
Advantages	
Typical Uses	

### Exam Question:

The Xbox controller above has been made from ABS which is a Thermoplastic.

Discuss the working properties of ABS that make it suitable for the controller ? (3)

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## Materials Practice 3 - Nike Leggings



	Polyester & Elastane
Natural or synthetic fibres?	
Typical Uses	

### Exam Question:

The Gym Leggings above have been made from Polyester and Elastane.

Discuss the working properties of these materials which make them suitable for the leggings? (3)

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## Materials Practice 4 - Road Bike



	Carbon Fibre
Advantages	
Typical Uses	

### Exam Question:

The road bike was made in a factory that uses a batch manufacturing system.

Evaluate the benefits of this method of production (6)

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# Materials Practice 5 - Vinyl Storage



	Plywood
Natural or Manufactured?	
Advantages	
Typical Uses	

## Exam Question:

The holes in the base for the pegs were laser cut. Discuss the benefits of using CAD/CAM for this part of the product (3)

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Evaluate how successful this product is in terms of Ergonomic design (4)

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## Materials Practice 6 - Phone



### Exam Questions:

Smart phones are made from a combination of Metals, Plastics and Glass. Why is this? (2)

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Hundreds of thousands of these phones are sold annually. Undertake a Life Cycle Analysis of the phone explaining the impact it has on the environment. (6)

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