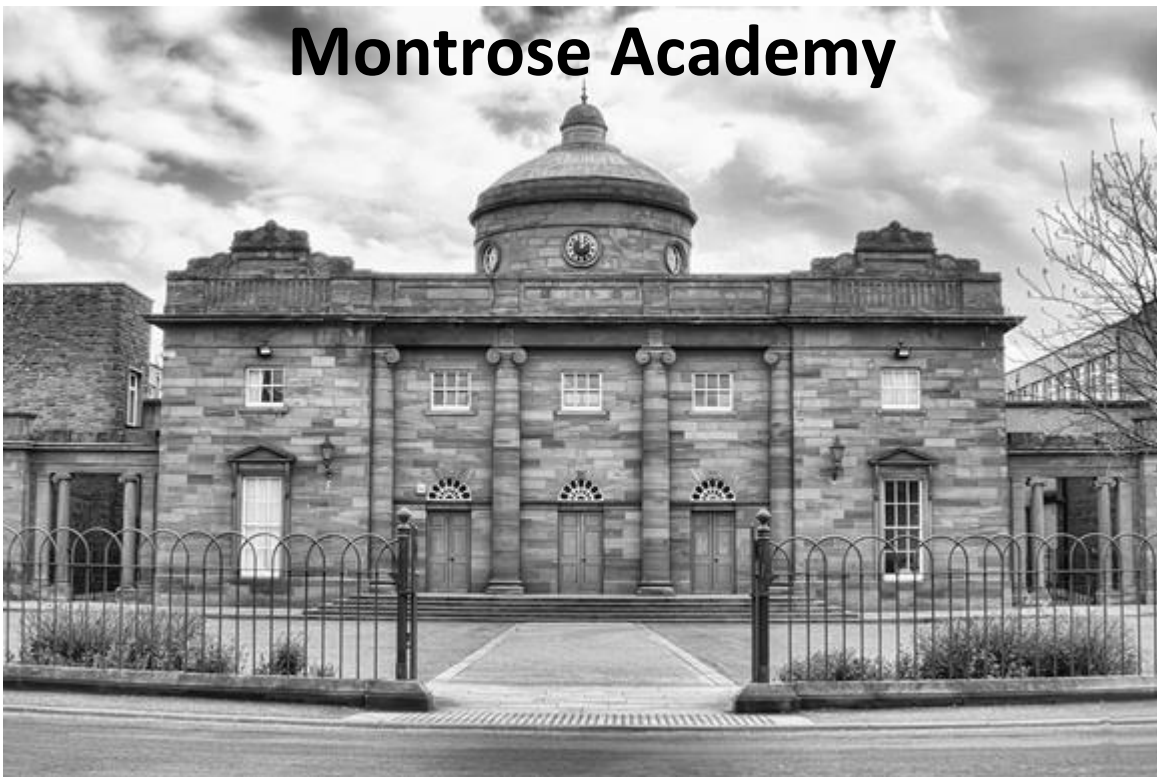


# N5 Design & Manufacture

## Manufacturing Questions

### Montrose Academy



# Design & Manufacture

## Manufacturing questions

Name 4 details that can be found on a working drawing.

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What does CAD/CAM stand for?

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Name some advantages and disadvantages of using CAD/CAM in the design process.

Advantages of CAD/CAM	Disadvantages of CAD/CAM

What area of Engineering will be more likely to see growth in the number of jobs available with the impact of CAD/CAM?

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Explain the term Globalisation.

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What impact has the internet had on manufacturing companies?

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What impact has better infrastructure had on manufacturing and selling products?

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Why do companies have to continually invest in training their staff?

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Why are there less jobs available in manufacturing than there used to be?

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Complete the table below.

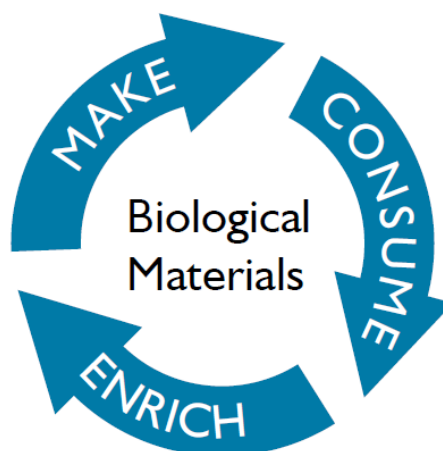
Globalisation has allowed:	The modern workforce is:

What does sustainable design seek to do?

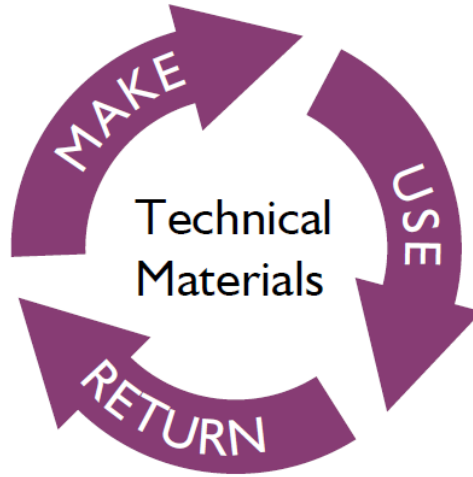
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Complete the diagram below with statements of what happens at each cycle.



Complete the diagram below with statements of what happens at each cycle.



Explain what is meant by each of the key principles of sustainability.

No waste

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Renewable energy

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Recovery systems

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Why is forest loss a problem for humanity?

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What are sustainably managed forests?

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Explain what is meant by the term “The wood cascade”.

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What is biofuel and what can it be used for?

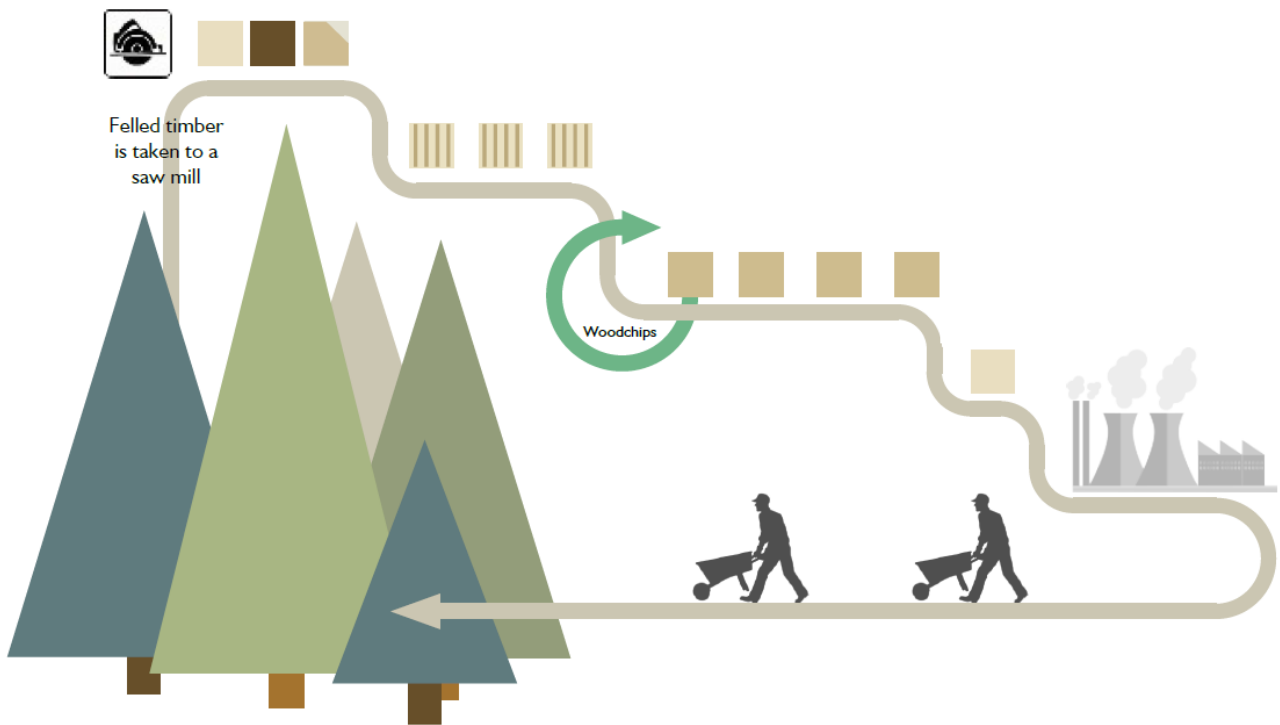
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Complete the diagram below of the Wood Cascade labelling each stage.



<b>Method of using wood sustainably</b>	<b>Explanation of what happens</b>
Reclaimed wood	
Managed forests	
Reducing material used	

Suggest 2 reasons for reducing the amount of metal that is dug out of the ground.

1.

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2.

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What is the difference between natural plastics and synthetic plastics?

Natural plastics

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Synthetic plastics

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Complete the plastic symbol diagram below with the type of plastic which is meant for each and the code used for each.



Complete the following statements.

Clean manufacturing involves minimising and preventing waste through production through:

1. 

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2. 

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3. 

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Explain the following industrial processes used when making something from plastic.

Process	How is it done?	What can be made?
Extrusion		
Blow moulding		
Compression moulding		

Explain the following industrial processes used when making something from metal.

Process	How is it done?	What can be made?
Piercing & Blanking		
Press Forming		
Drop Forging		

What are standard components?

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Name advantages of using standard components in products.

1.

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2.

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3.

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4.

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5.

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6.

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7.

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What needs to be produced before a rapid prototyping model is created?

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Name the advantages of using rapid prototyping to make models.

1. 

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2. 

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3. 

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4. 

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5. 

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6. 

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7. 

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