

NAME: _____

FORM/GROUP _____

DESIGN AND TECHNOLOGY REVISION BOOKLET

7

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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PRODUCTION SYSTEMS - BOOKLET 2

SINGLE ITEM / ONE OFF PRODUCTION
BATCH PRODUCTION
CONTINUOUS PRODUCTION

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SUITABLE REVISION MATERIAL FOR:

**DESIGN AND TECHNOLOGY
PRODUCT DESIGN
RESISTANT MATERIALS
GRAPHIC PRODUCTS**

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SINGLE ITEM / PROTOTYPE / ONE OFF PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/sing1a.htm>
<https://www.technologystudent.com/joints/sing1.htm>

1. What is single item / one off / prototype production? **3 marks**

2. Name four products that are designed / manufactured through single item production techniques. **4 marks**

3. List five characteristics of a company specialising in single item design / manufacture. **5 marks**

A.

B.

C.

D.

E.

SINGLE ITEM / PROTOTYPE / ONE OFF PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/sing1a.htm>
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4. A company specialising in single item / one off manufacture, has a small workforce. Describe / explain the level of technical skill, that a worker would be expected to have, when working for this type of company. **3 marks**

5. Describe a company that specialises in single item / one off production. Include the following:

The product the company manufactures **1 mark:**

Description of typical customer **2 marks:**

Size of the workforce **1 mark:**

Stages of manufacture of the product **3 marks:**

Quality control **2 marks:**

BATCH PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/bat1.htm>
<https://www.technologystudent.com/joints/batch1.htm>

1. What is batch production? **3 marks**

2. Name four products that are designed / manufactured through batch production techniques. **4 marks**

3. List five characteristics of a company specialising in batch production. **5 marks**

A.

B.

C.

D.

E.

BATCH PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/bat1.htm>
<https://www.technologystudent.com/joints/batch1.htm>

4. Describe the level and range of technical skills of employees, working for a company specialising in batch production. **3 marks**

5. Describe a company that specialises in batch production. Include the following:

The product the company manufactures **1 mark:**

Description of typical customer **2 marks:** _____

Size of the workforce **1 mark:** _____

Stages of manufacture of the product **3 marks:** _____

Quality control **2 marks:** _____

BATCH PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/bat1.htm>
<https://www.technologystudent.com/joints/batch1.htm>

6. Explain the difference between batch production and single item (one off) production. **4 marks**

7. Are the workers who manufacture single items (one offs / prototypes) more skilled than those who work on a production line in a factory that carries out batch production? **3 marks**

CONTINUOUS PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/contin1a.htm>
<https://www.technologystudent.com/joints/contin1.htm>

1. What is continuous production? **3 marks**

2. Name four products that are designed / manufactured through continuous production techniques. **4 marks**

3. List five characteristics of a company specialising in continuous production. **5 marks**

A.

B.

C.

D.

E.

CONTINUOUS PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/contin1a.htm>
<https://www.technologystudent.com/joints/contin1.htm>

4. Describe the level and range of technical skills of employees, working for a company specialising in continuous production. **3 marks**

5. Describe a company that specialises in continuous production. Include the following:

The product the company manufactures **1 mark:**

Description of typical customer **2 marks:** _____

Size of the workforce **1 mark:** _____

Stages of manufacture of the product **3 marks:** _____

Quality control **2 marks:** _____

CONTINUOUS PRODUCTION

LINKS TO HELP AND INFORMATION

<https://www.technologystudent.com/joints/contin1a.htm>
<https://www.technologystudent.com/joints/contin1.htm>

6. Explain the difference between continuous production and batch production.
4 marks

7. Do employees who work in factories that batch produce items have different skills to those who work in factories that use continuous production techniques? **3 marks**
