

EXAMINATION PREPARATION

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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MANUFACTURING

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3. Five hundred clocks of your design are to be made. Underline the type/scale of production.

SINGLE ITEM/ONE OFF

BATCH

CONTINUOUS

4. Using notes and sketches explain how your clock could be manufactured. List materials, tools and equipment you intend to use. You can use up to six stages of manufacture. Each of the 500 clocks should be exactly the same.

1.	2.
3.	4.
5.	6.

Quality Control is an essential aspect of manufacturing. Quality control takes place when the product is checked for quality during most stages of manufacture. Damage to the product is identified and poor quality products are removed.

Quality Assurance does not check the quality of the final product but the quality of all systems on the production line, staff training and quality monitoring.

5. Explain the procedures you would implement to ensure that every clock was of the highest possible quality. The following key words / phrases may help you answer the question.

USE TEMPLATES ENSURE HIGH QUALITY CHECK MEASUREMENTS REJECTS
ACCURACY OF MANUFACTURE QUALITY ASSURANCE IN PLACE

6. Draw a line from the scale of production to its correct description.

SCALE OF PRODUCTION

DESCRIPTION

SINGLE ITEM/ONE OFF	Manufacturing 24 hours a day, 7 days a week, 365 days a year. For example, purification of water for domestic consumption
BATCH	The careful manufacture of a prototype, often using highly skilled people. For example, a prototype car.
CONTINUOUS	The manufacture of a limited number of the same product. For example, a limited special edition Music CD ROM

7. Draw a line from the material to the correct method of finishing.

NATURAL WOODS	Laquer, hand file, emery cloth, lathe, milling machine, paint, galvanised, powder coating,
STEEL	Plain, glass paper, varnish, linseed oil, teak oil, dyes, stains French polish, Danish oil
PERSPEX/ACRYLIC	Hand file, wet and dry paper, polishing machine.