

## INSTRUCTIONS

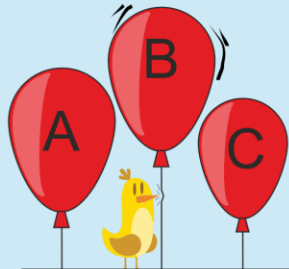
Include **sketches, diagrams and notes** in your answers. Click on the 'balloons' for helpful links.

# MANUFACTURING AND PRODUCTION SYSTEMS - INTERACTIVE KNOWLEDGE MAP

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

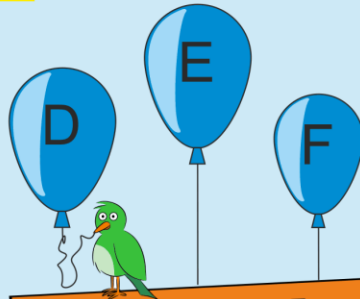
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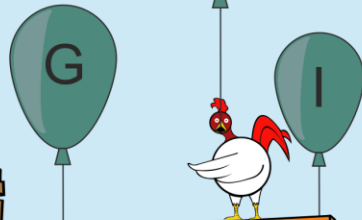
1a. WHAT IS ONE OFF/ PROTOTYPE / SINGLE ITEM PRODUCTION?

1.b DESCRIBE ONE DETAILED EXAMPLE OF THIS TYPE OF MANUFACTURE



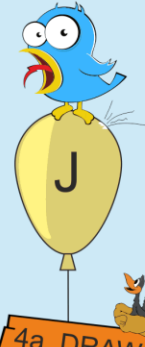
2a. WHAT ARE THE CHARACTERISTICS OF BATCH PRODUCTION?

2b. DESCRIBE THE BATCH PRODUCTION OF A BICYCLE.



3a. LIST FIVE CHARACTERISTICS OF CONTINUOUS PRODUCTION

3b. DRAW A FLOW CHART, SHOWING THE PRODUCTION OF A CAR BODY



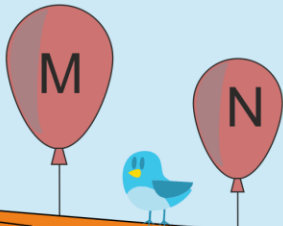
4a. DRAW A DIAGRAM OF A 'CIM' FACTORY.

4.b. EXPLAIN / DESCRIBE YOUR DIAGRAM.

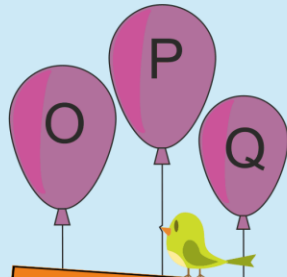


5a. WHAT IS REMOTE MANUFACTURING?

5b. USING SKETCHES, EXPLAIN HOW BOOKS CAN BE REMOTELY MANUFACTURED



6. WHAT IS CONTINUOUS IMPROVEMENT?



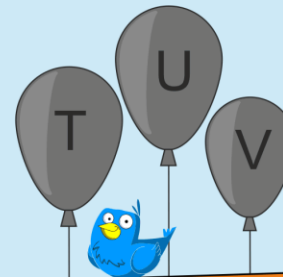
7a. WHAT IS MACHINE FLEXIBILITY? Include an example.

7b. WHAT IS ROUTING FLEXIBILITY? Include a diagram.



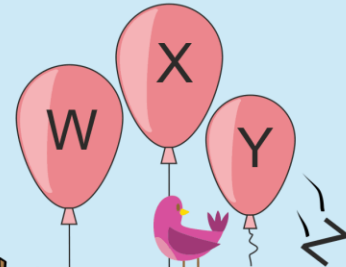
8a. JUST IN TIME IS POPULAR. WHAT IS IT?

8b. DESCRIBE A DETAILED EXAMPLE OF JIT.



9a. WHO INTRODUCED LEAN MANUFACTURE? WHAT IS IT?

9b. WHAT ARE THE KEY PRINCIPLES OF LEAN MANUFACTURE?



10a. WHAT IS GLOBALISATION?

10b. OUTLINE AN EXAMPLE OF GLOBALISATION