

# REVISION CARDS - REAL WORLD MANUFACTURING

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On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

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## HOW DOES REAL LIFE MANUFACTURE FIT INTO THE DESIGN PROCESS?

When a designer 'designs' a product for a client, he/she makes a number of prototypes. They are presented to the client, discussed and the design is developed, until a final acceptable prototype is manufactured.

Testing and evaluating then takes place, with the client being central and also focus groups contributing.

Modifications are then made to the prototype and a final one manufactured, in a workshop.

Mass production (real world manufacture) is then planned / organised.

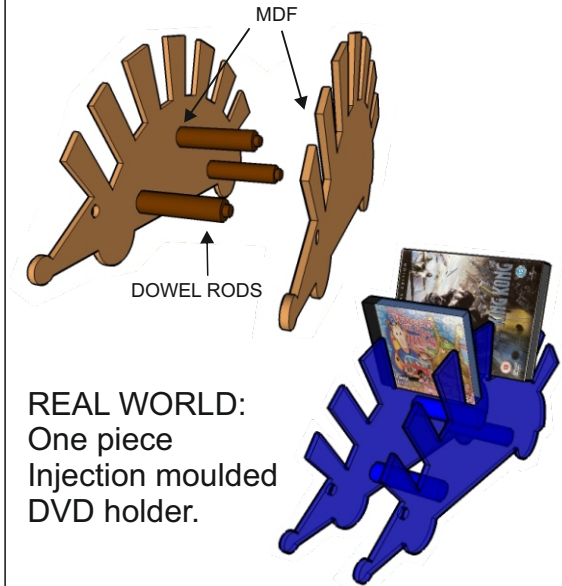
## WHAT IS REAL WORLD MANUFACTURING?

Real World Manufacturing - is the manufacturing of a product, in a factory on a production line.

### **CHARACTERISTICS:**

1. Manufacture in a factory.
2. Manufacture on a production line.
3. Manufacture in large numbers - batch, continuous, just in time.
4. Lower cost of manufacture, compared to prototype.
5. Reduction in cost of manufacture, as more of the product are made.
6. Use of manufacturing processes such as injection moulding.
7. Quality assurance and quality control integrated into the manufacturing process.

WORKSHOP PROTOTYPE: Hand made using typical workshop equipment and materials.



1. How does Real World Manufacturing fit into the design process? *Marks: 3*

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1. Write four characteristics of Real World Manufacture. *Marks: 4*

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