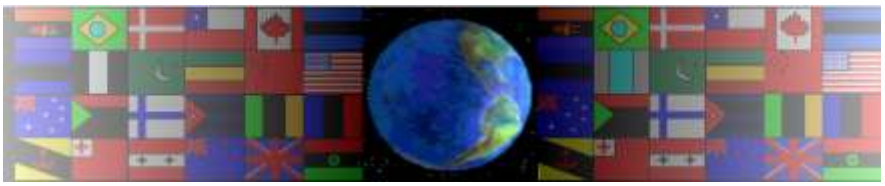
BLOW MOULDING

On behalf of The World Association of Technology Teachers

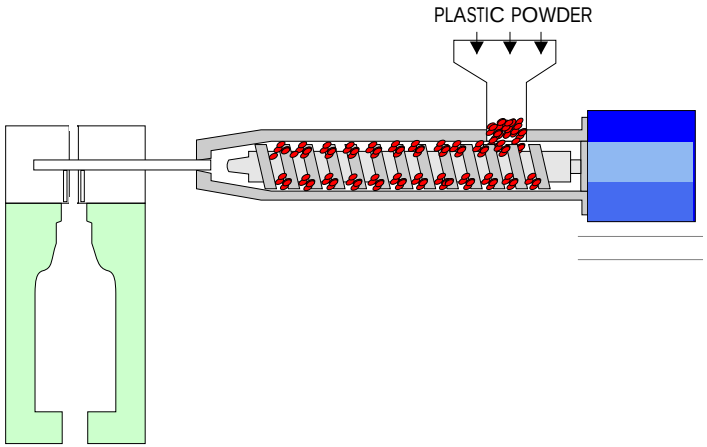
W.A.T.T.



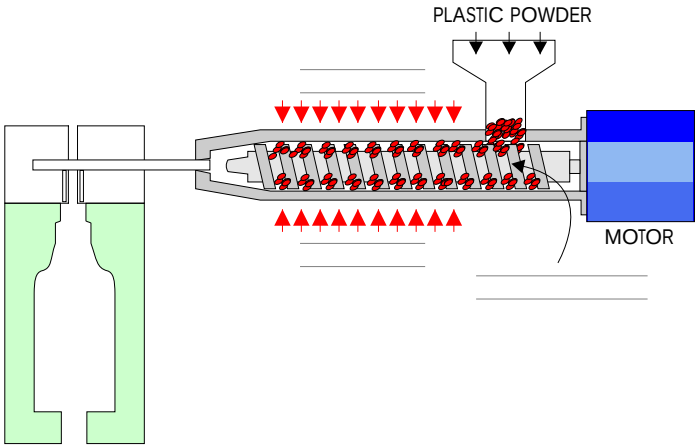
World Association of Technology Teachers

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 .

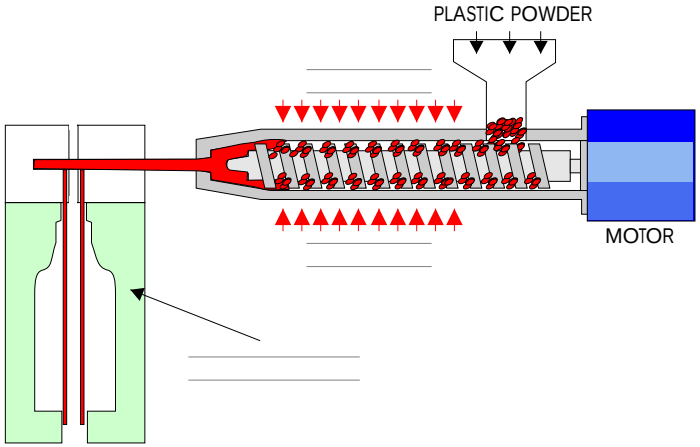
FORMING PLASTICS THROUGH INJECTION MOULDING / BLOW MOULDING



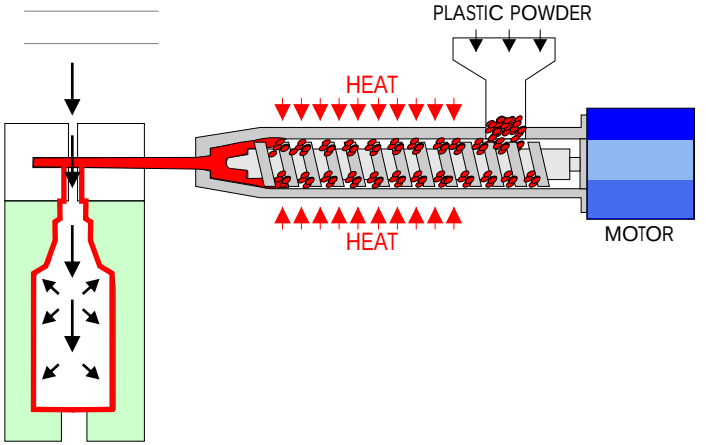
1. _____ of plastic powder (polystyrene, nylon, _____ and polythene) are poured or fed into a hopper which stores it until it is needed.



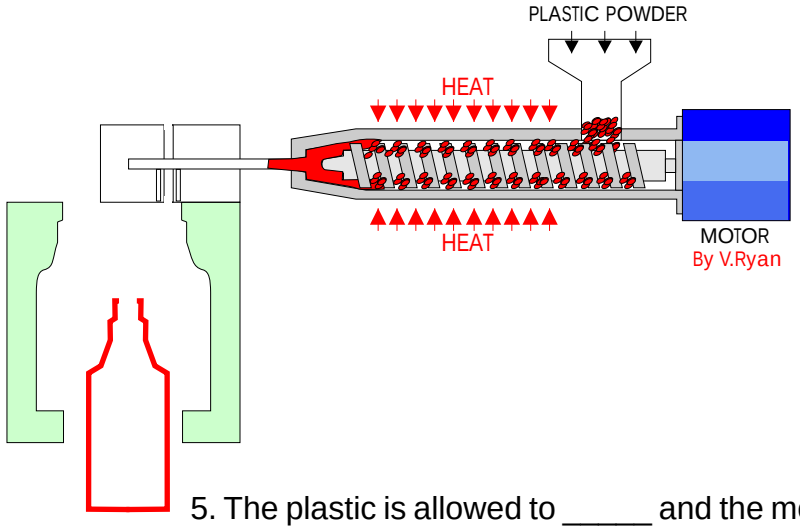
2. The _____ is turned on. This warms up and melts the granular plastic. A_____ turns a screw thread which pushes the granules along the heater section causing it to change to a_____.



3. The liquid plastic is forced into a mould by _____.



4. _____ air is 'blown' into the mould. This forces the liquid plastic against the sides of the _____. In this example it forms the shape of a plastic _____.



5. The plastic is allowed to _____ and the mould is '_____' and the plastic bottle removed. The entire process is _____ hundreds or thousands of times.

QUESTIONS:

1. Complete the diagrams by adding missing words and parts.

2a. Draw a Flowchart, representing each stage of injection moulding and blow moulding. Add quality control points and include recycling.
2b. Explain why recycling is important

3. Draw a suitable recycling logo.