

BLOW MOULDING

V.Ryan © 2000 - 2009

On behalf of The World Association of Technology Teachers

W.A.T.T.

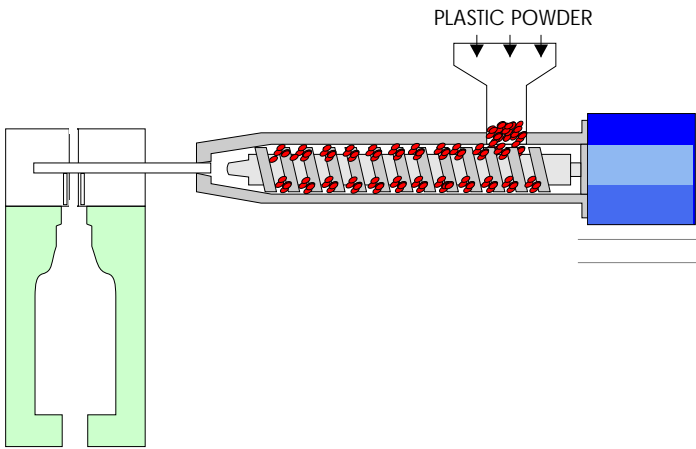


World Association of Technology Teachers

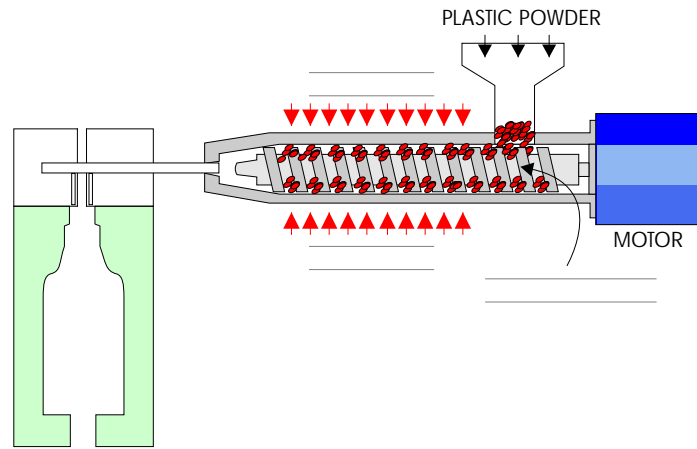
This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

THESE MATERIALS CAN BE PRINTED AND USED BY TEACHERS AND STUDENTS.
THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER MEDIA INCLUDING WEB SITES AND INTRANETS.
NOT FOR COMMERCIAL USE.
THIS WORK IS PROTECTED BY COPYRIGHT LAW.
IT IS ILLEGAL TO DISPLAY THIS WORK ON ANY WEBSITE/MEDIA STORAGE OTHER THAN www.technologystudent.com

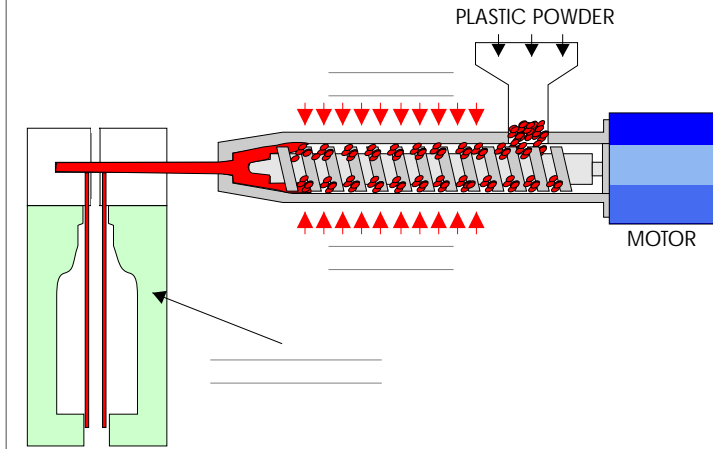
FORMING PLASTICS THROUGH INJECTION MOULDING / BLOW MOULDING



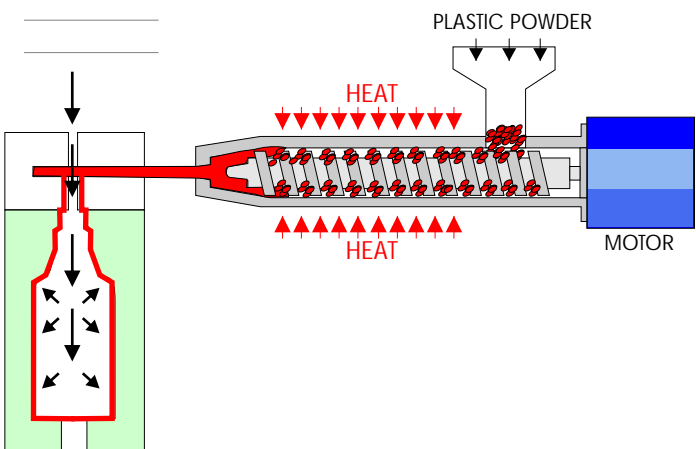
1. _____ of plastic powder (polystyrene, nylon, _____ and polythene) are poured or fed into a hopper which stores it until it is needed.



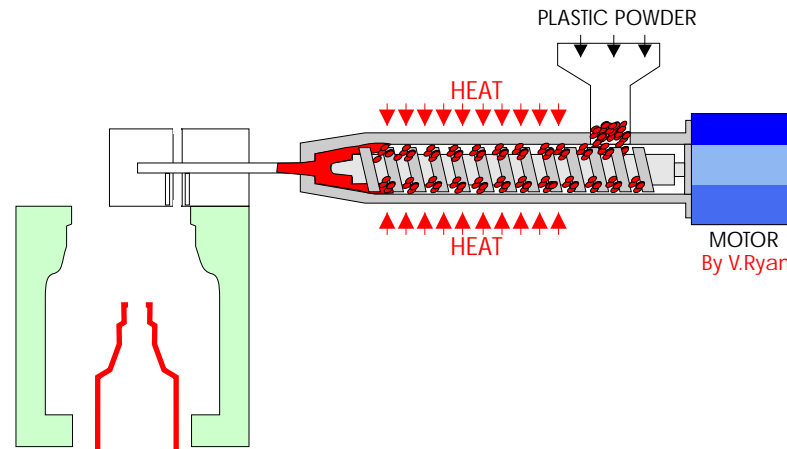
2. The _____ is turned on. This warms up and melts the granular plastic. A _____ turns a screw thread which pushes the granules along the heater section causing it to change to a _____.



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.