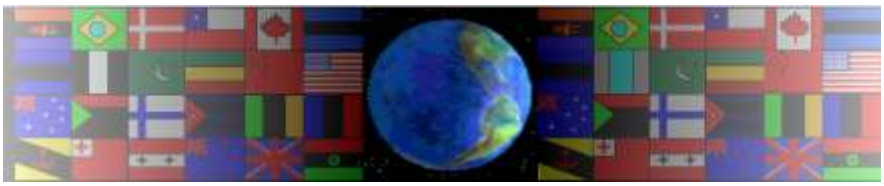
HYDROMORPHIC POLYMERS

On behalf of The World Association of Technology Teachers

W.A.T.T.



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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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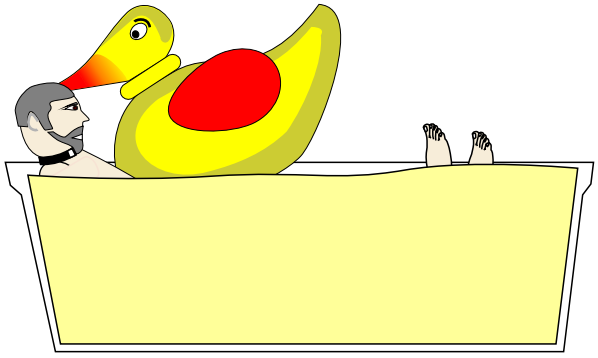
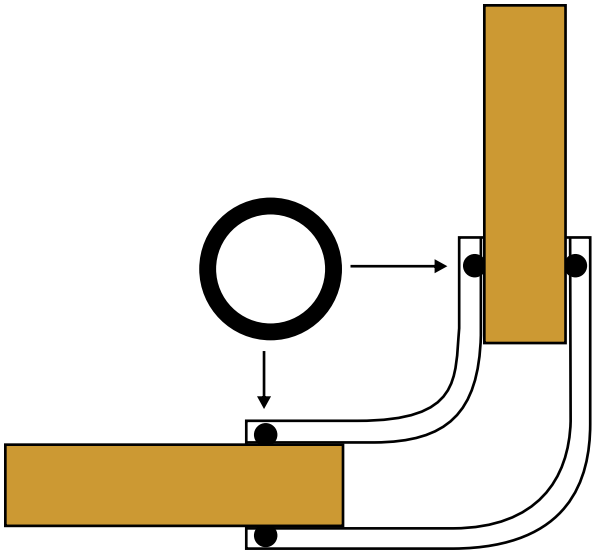


1. A simple floating plastic duck, for use in a bath, expands to almost five times its original size, when placed in water.

Describe two other applications of hydromorphic polymers.

Practical Application 1:

Practical Application 2:



2. The pipe connector, seen opposite, has 'O' rings to prevent leaks. Explain why an hydromorphic polymer is the best material to use in this situation.

3. Using sketches and notes, describe a potential use of hydromorphic polmers, in a practical situation. You must describe one potential / new use of the material not an existing application.