

REVISION CARDS - NYLON

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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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DEVELOPMENT OF NYLON



1935 - a team of chemists at DuPont, led by Wallace Carothers, developed nylon66.

Physical Properties: An excellent insulator, often found inside electrical products. Strong, durable and tough, with very little 'give'. Produces very little friction and can be used as a material for plain bearings, as it does not need lubrication. It is resistant to corrosion.

Machinability: Can be machined into precision parts, using standard engineering equipment, such as centre lathes and milling machines. It can be cast, injection moulded and extruded, which allows it to be manufactured into a vast range of precision products.

PRACTICAL APPLICATION NYLON

Nylon is now used in a wide and varied range of products. These include nylon nuts, bolts, washers, screws, tools, packaging and even parts for cars. The list is endless and includes clothing / textiles.

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NUTS AND BOLTS



CLIPS



BAGS / HOLDALLS



GEARS / PULLEYS



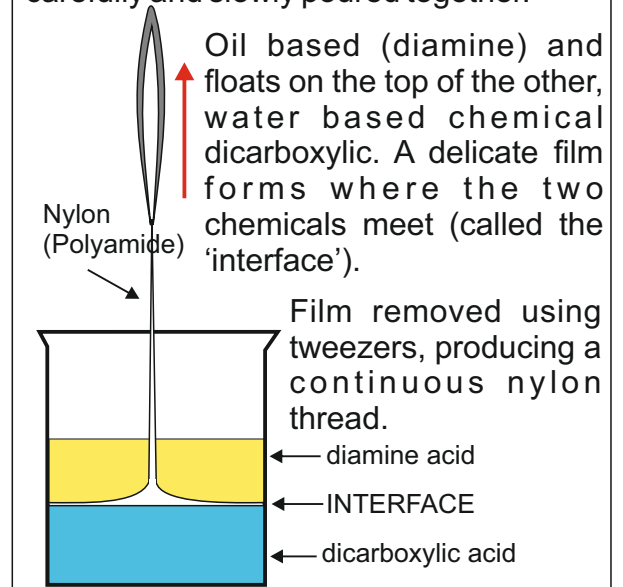
YARN / STRING



BEARINGS

MANUFACTURE - NYLON FIBRE

Produced when equal volumes of a diamine acid and a dicarboxylic acid are carefully and slowly poured together.



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1. Who led the research team that developed nylon and what company did he work for? *2 marks*

NAME: _____

COMPANY: _____

2. List six products manufactured from nylon. *6 marks*

3. Describe three physical properties possessed by nylon. *3 marks*
