

# BTS ELECTROTECHNIQUE

## EPREUVE ORALE D'ANGLAIS – Session 2016

Sujet 1

Cars are quite tricky to design and build – if they weren't, we'd all be driving around in the wheeled manifestation of our own imaginations. Manufacturers spend years developing and designing the right materials for their cars – but what are they?

Carmakers have to consider a range of factors when designing a car including weight, strength, perceived quality and ease of repair and construction. A car made of the most exotic materials might be incredibly strong and small fortune to produce. Manufacturers often need to use a mixture of materials in one car to achieve their goals.



Plastic is never going to feel as good quality as a metal alternative but it's likely to weigh a lot less and be cheaper and faster to produce and paint. Plastic is used on cheaper cars for external body panels like the bumpers, wings and sills. While you might be able to bend the panels with a stiff prod, plastic makes sense as body panel material as it's light, resilient to impacts and easily replaced if damaged.

Most car interiors are predominantly plastic because it's easier to mold into the complex shapes demanded by car buyers – 'soft-touch' plastics are popular in more expensive cars as they feel much more luxurious to the touch than regular plastic.

Taken from a site entitled <http://www.investopedia.com/>  
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