

PRODUCT DEVELOPMENT - A CAR BODY THAT IS ALSO A BATTERY

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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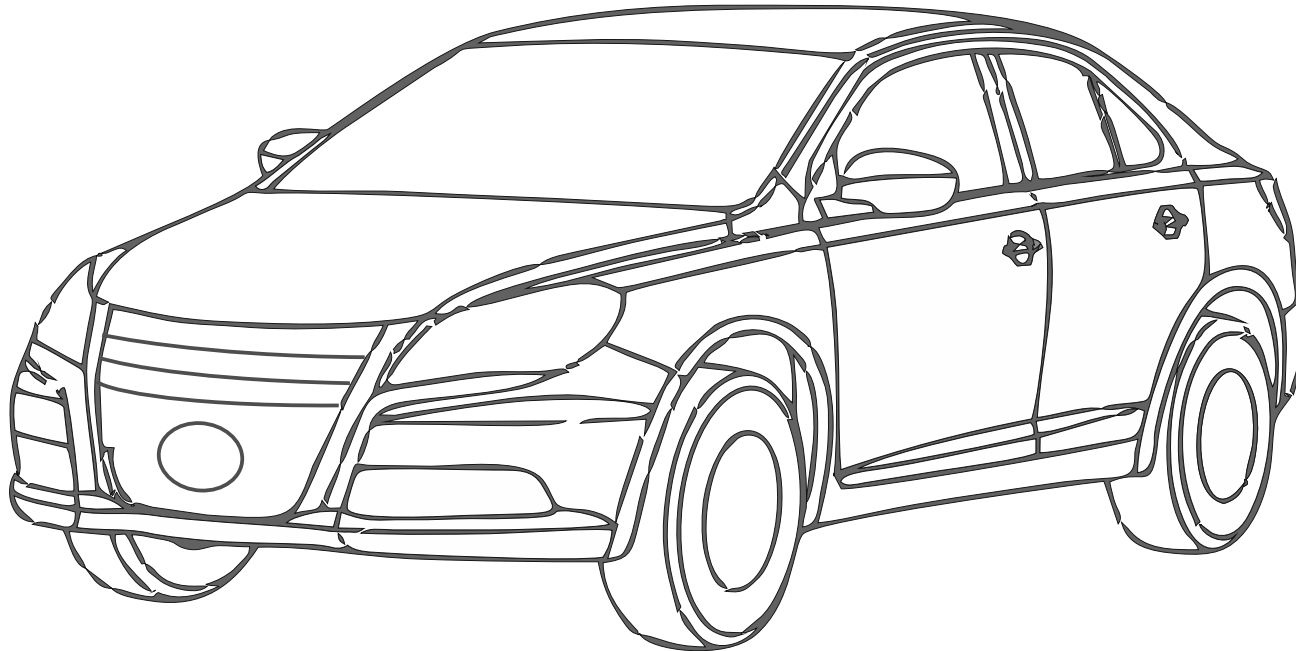
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Research shows that carbon fibre and fibreglass are highly effective replacements for the steel body work of a car. Another innovative development, is that the new body work can serve as a battery

Car manufacturers are developing vehicles that utilise new technology. One example is Volvo cars, who are using composite materials for the car body, that also replace the need for a heavy car battery. The composite material (carbon fibre and polymer resin) replaces the steel panels and holds the charge normally stored in a traditional battery.

1. Complete the drawing below, by adding information and diagrams, that show how the car body can be used to store electricity. Also, include information and diagrams that explain how electricity is generated and then used to increase the efficiency of the car.



2. How could the stored electricity be used externally? (E.g. the car bodies stored energy could be transferred via cables, for use at home).
