

# Learning with Landy

## Science

Finding out what Landy  
is made of ...



### Properties of Landy

Landy is made from  
many different materials.

Let's look at some parts  
of Landy and find out  
what they are made of.

Bodywork

- aluminium alloy

Hood

- cotton canvas

Electrical wire

- metal covered in rubber

Tyres

- rubber

Windows

- glass

Seat covers

- leather

Bumper

- galvanised steel

Steering wheel

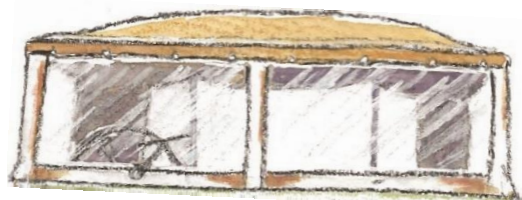
- ebonite (made from rubber)

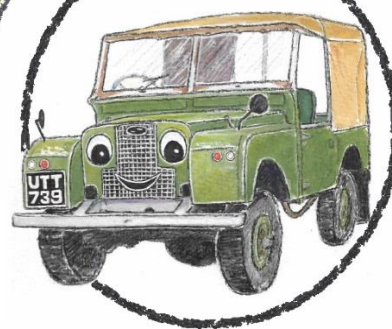
Exhaust pipe

- steel

Lights

- glass





### Some Properties of Landy

**Aluminium alloy:** This was used to make Series I Land Rovers. This means the aluminium was mixed with manganese and magnesium to make it very **strong** and corrosion resistant.

1) Why is Landy made from aluminium and not cardboard?

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**Canvas:** This was used to make hoods for some Series Land Rovers. It is made from **thick cotton** to make it strong. Sometimes it is called cotton duck. The fabric is tightly woven, so it doesn't tear easily, and then treated to make it waterproof.

2) Cross the circle of those items which could be made from cotton canvas:

tents

shoes

pots

rucksacks

tables

mugs



**Electrical wire:** This is made from **copper** which allows electricity to travel along it. The wires are usually **covered** in a **rubber** or plastic coating, called **insulation**. This prevents the wires from touching other materials that conduct electricity, which could cause electric shocks or fires.

3) Cross the circles of three things below that need electrical wire:

headlights



tyres



ignition



wipers



### Other Properties of Landy



**Rubber:** This is used in the making of tyres. Rubber makes tyres flexible and allows them to be filled with air. Rubber tyres give the vehicle grip on rough ground as well as on roads. The groove patterns on tyres are called treads.

4) Can you think of two other items that rubber can be used for?

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**Glass:** This is used for windows, dial covers and mirrors in Series Land Rovers. Glass is made from sand that is melted at a very high temperature. It then becomes transparent and hardens when it cools.

5) Can you think of four other items made from glass?

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**Leather:** This is one material used for seat covers. Leather comes from animal skin, usually cow hide. Leather can be moulded into shape and can take a lot of wear. It can also be easily wiped clean.

6) Can you name three items made from leather?

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