

Your task is to design and make a roman carriage for transporting food. You will need to consider the following issues:

- the roads are bumpy
- they are dirty
- carriages need to be comfortable to travel in
- the food needs to be carried safely.



Consider the following two methods for adding wheels to your carriage.

Making a simple vehicle with rotating axles

You will need:

- Cardboard
- Two pieces of dowel, cut to size
- Two straws, cut to size and wide enough to allow the dowel to turn freely inside.
- Four wooden wheels
- Sticky tape



1. Stick 2 straws to the base of the cardboard, running across the width.
2. Push the dowel through the straws.
3. Attach the wheels to each end of the dowel. They should fit tightly to the dowel.
4. Test your vehicle – the wheels and the axle should turn.

Making a simple vehicle with fixed axles

You will need:

- Cardboard
- Two pieces of dowel, cut to size
- Four plastic wheels or cotton reels
- Small pieces of plastic tubing
- Sticky tape

1. Stick 2 pieces of dowel to the base of the cardboard, running across the width.
2. Attach the wheels to each end of the dowel, with holes wide enough for them to turn. Add small pieces of plastic tubing to the ends, to prevent them coming off the dowel.
3. Test your vehicle – the wheels should turn but the axle stays in place.

<p style="text-align: center;">Design Brief</p> <p>Task: To design a Roman carriage </p>	<p style="text-align: center;">Design Brief</p> <p>Task: To design a Roman carriage </p>
Who is it for?	Who is it for?
What will it be used for?	What will it be used for?
What problems does it need to overcome?	What problems does it need to overcome?
Which method will you use for the wheels?	Which method will you use for the wheels?

Evaluation

Our carriages needed to solve these problems: the roads are bumpy; they are dirty; carriages need to be comfortable to travel in; the food needs to be carried safely.
How does your carriage solve these problems?

Bumpy
Dirty
Uncomfortable
Food needs to be carried safely
If you were going to make your carriage again, how would you do it?