



ART & DT
Year 2 Summer 2
Moving Vehicles / Tinga
Tinga Art

Vocabulary

Tier 1	Tier 2	Tier 3
wheels	axles	chassis
mechanism	fixed	technique
moving	free	texture
turn		form
		express

● don't know
 ● I know this word
 ● I can use it in a sentence

--	--	--	--

Designing and Making

This term, we will be making a vehicle to transport a giraffe around the world.

What vehicle will you design?
What materials will you use?

The materials you use and the design of your vehicle will depend on what the vehicle needs to do and where it will be travelling.

Will it be transporting people or something else?
Will it need to travel at high speeds?
What kind of ground will it travel on?

Ways to hold moving axles

Use **pairs of clothes pegs** glued with PVA to the underside of a box. Check the peg holes are large enough to allow axles to move freely. Make sure they are aligned carefully so the vehicle moves in a straight line when the wheel and axle mechanism is added.



Use **card triangles** with holes for the axle. Check the holes are large enough to allow the axle to move freely. Make sure opposite triangles are aligned carefully so the vehicle moves in a straight line when the wheel and axle mechanism is added.



Use **large paper/plastic straws** fixed with masking tape to the underside of a box. Check straws are positioned carefully so the vehicle will move in a straight line when the wheel and axle mechanisms are added. Make sure the straw hole is large enough to allow the axle to move freely. The wheels must be fixed tightly to the axle.



Wheels and Axles

Key Knowledge:



Wheel



Axle

Wheels and axles can be found in many commercial products including:



bicycles



ferris wheels



electric fans



winches

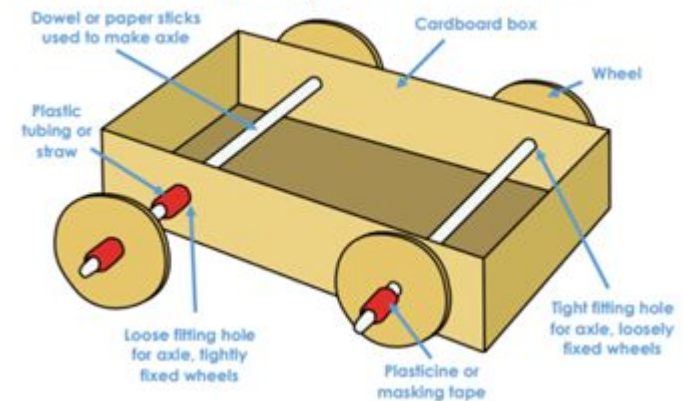
Fixed axles are not steerable



Free-moving axles are steerable

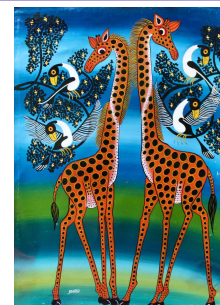


Two different ways to fix wheels



Tinga Tinga Art

Tinga Tinga Art, is a style of art from Tanzania in Africa. When Zeraffe Giraffa travelled to Paris, lots of the art work and fashions used her and African styles of art as inspiration.



Useful Resources

<https://www.bbc.co.uk/teach/class-clips-video/articles/zs6d239>

<https://www.bbc.co.uk/bitesize/articles/zmt7p9q>