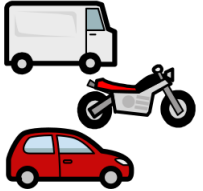
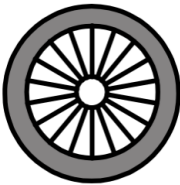
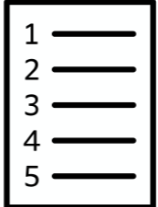
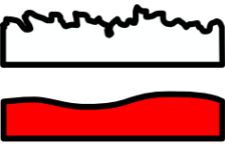
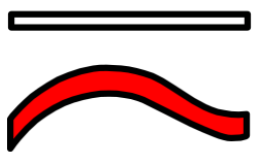


Year 1 Design Technology – Wheels and Axels

Vocabulary

Vehicle	A machine, usually with wheels and an engine, used for moving things	
Moon Buggy	A vehicle used for driving on the moon	
Design	To make or draw plans for something	
Wheel	A circular object connected at the centre to a bar (axel), used for making vehicles move	
Axle	A bar connected to the centre of a wheel that causes it to turn, especially one connecting two wheels of a vehicle	

Materials	Equipment that you need for a particular activity	
Design Specification	A description of how something should be done, made, etc	
Smooth	A surface that has no holes or lumps	
Straight	Going in one direction without bending or curving	
Curved	Having a rounded or bending shape	
Evaluate	to judge the quality of something	

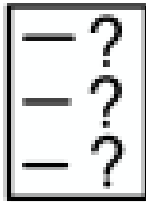
Year 1 Design Technology: Wheels and Axles

Knowledge

- Know that a **moon buggy** is a vehicle designed for astronauts to use on the moon
- Know that a **vehicle** is a transport used for carrying and moving
- Know that **vehicles** have various purposes e.g. ambulance to help injured people and transport them to hospital, lorry to carry goods etc
- Know that some **vehicles** have a **wheel** and an **axle**
- Know that a **wheel** is a circular object that is fixed below a **vehicle** that helps it move on ground
- Know that an **axle** is a bar that passes through the middle of the **wheel**
- Know that without the **wheel** and **axle**, the **vehicle** would not be able to move
- To understand that when **designing** something, we need to think about what the **design** needs.
- To understand that when **designing** something we need to think about the **materials** that we are going to use and how they will be put together.
- Know that the other fingers curl around the scissors and provide stability (allow us to make the cuts more accurate)
- Know that for **straight** cuts we make larger cuts whilst holding the paper still and following a line
- Know that for **curved** cuts we move the paper and not the scissors and make smaller cuts
- Know that **evaluation** means to see how well something worked

How to hold / Use Scissors

- Know that in order to use scissors we need to put our thumb through the scissor handle.
- Know that the index and middle finger go in the other hole.
- Know that the placement of these fingers will help open and close the scissors

Quizzing		Quiz at home
Ask your partner the questions below. Can they find the correct answer on the right-hand side?		Ask your adult to look at the KO. Quiz them using the vocabulary and knowledge section or the quiz questions. • Can they beat your score? • Can they score more than 5? 10? • Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.
What is the bar called that goes through a wheel to help it turn?	Lorry	
What type of vehicle was driven on the moon?	Using the back of the scissors and turning the paper	
How do we hold scissors when moving around the room?	Axle	
Which vehicle is used to transport sick people?	Using all of the scissors and keeping the paper still	
How do I cut curved edges?	Hold the blade downwards	
How do I cut straight edges?	Ambulances	
Which vehicle can I transport heavy materials on the land?	Moon Buggy	
	Hold the blade upwards	
	Wheels	
Big Questions	Beat Your Adult	 
1. Why are wheels important? 2. What would happen if wheels were square instead of circular? 3. What would happen if axles were made out of plastic? 4. Which vehicles were important to space travel? Why? 5. How many vehicles can you name with wheels AND axles? 6. Why are ambulances bigger than police cars?	How many land vehicles can you name in 1 minute? How many air vehicles can you name in 1 minute? How many water vehicles can you name in 1 minute?	

Word scramble		Tasks	Creative Task
Unscramble the key vocabulary from this topic below. You can create your own at the bottom		1. Use a blank copy of the KO to fill in the missing information. 2. Write down all the vehicles which have axles and wheels 3. Look out of your window / a relatives window: which vehicles can you see in 15 minutes? Don't forget to look into the sky!	1. Create a model vehicle using Lego / materials in your house. 2. Write a narrative which has three types of vehicles in. 3. Draw a picture of one of the vehicles in the film 'Cars'.
oomn			
ybggu			
eelwh			
leax			
cihevel			
aitmalser			
			4. Ask your adult to draw you a circle ad see if you can cut it out without creating any jagged edges.

Tell a partner / an adult the definition for the missing spaces below

Vocabulary

	A machine, usually with wheels and an engine, used for moving things	
Moon Buggy		
	To make or draw plans for something	
Wheel		
Axle		
	Equipment that you need for a particular activity	
Design Specification		
	A surface that has no holes or lumps	
	Going in one direction without bending or curving	
Curved		
Evaluate		

