Featherstone Wood Primary School

<u>Our School's Skills</u> - Working Collaboratively, Independence, Community Values, Reflectiveness, Stickability, Risk-Taking, Inquisitiveness, Communication

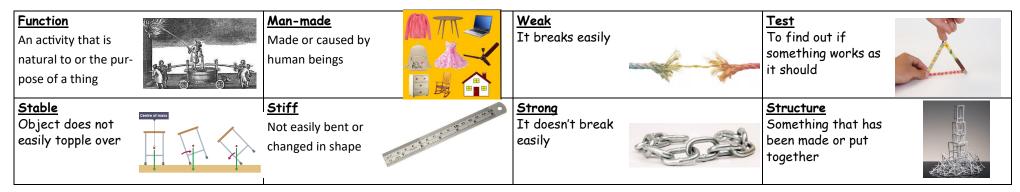


Year 2 Autumn term — Paper project

Our Key Learning Objectives		
I can generate and communicate ideas using sketching and modelling		
I know that a structure is something that is formed and made of parts, and I know the difference be- tween a 'stable', 'strong' and 'stiff structure.		
I can make a structure according to design criteria		. <u></u>
I can build a strong and stiff structure by folding paper		. <u></u>
I can create joints and structures from paper/card and tape		
I can test the strength of the structures I have built		
I can identify the weakest part of a structure		
I can evaluate the strength stiffness and stability of my own structure and know that materials can be manipulated to improve strength and structure.		

Tick the green box if you fully understand and can explain your knowledge to someone else. Tick the prange box if you understand a bit but would need some help to explain it to someone else. Tick the red box if you are still learning to understand.

Key Words



Write down any questions you would like to explore further.

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<u>Beacon 1</u>

- Name a range of mechanisms
- . Use key vocabulary to design and evaluate
- Prepare dishes using basic principles of healthy living and varied diet
- Explain where some food comes from

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Year 2 Spring term Mechanisms project

Our Key Learning Objectives		
To explore wheel mechanisms and design a wheel		
To select appropriate materials		
To build and test a moving wheel		
To make and evaluate a structure with a rotating wheel		

Tick the green box if you fully understand and can explain your knowledge to someone else. Tick the orange box if you understand a bit but would need some help to explain it to someone else. Tick the red box if you are still learning to understand.

Key Words

Design A plan or drawing produced to show the look and function		Ferris wheel A fairground ride consisting of a giant vertical revolving wheel	Axle holder The component through which an axle fits and rotates	Design criteria Explicit goals that a project must achieve in order to be successful
Pods A detachable or self- contained unit (seat)		Frame A rigid structure that surrounds something	Wheel A circular object that revolves on an axle	
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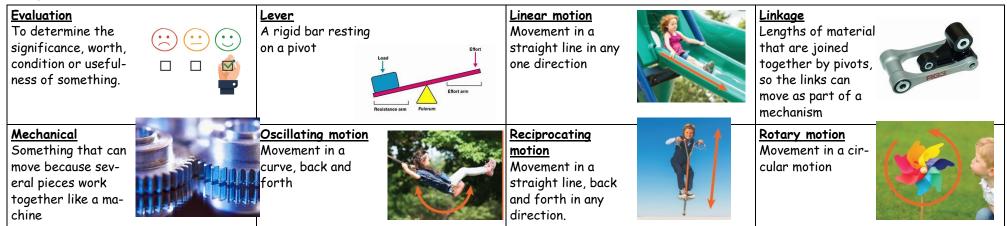


Year 2 Summer term—Levers project

Our Key Learning Objectives		
I can create a shared design for a moving picture		
I can talk about how the picture is designed for a specific audience based on the design criteria		
I know that a linkage mechanism is made of a series of levers		
Making linkages using card for levers and split pins for pivots, cutting and assembling components neatly		
Experimenting with linkages adjusting the widths, lengths and thicknesses of card used		
I understand that there is always an input and an output in a mechanism		
I can evaluate my own design against the design criteria		
I can use peer feedback to modify my design		

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Key Words



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