Law and Order – Keeping the Peace
How are levers and linkages used in construction?

What will we be learning in Design Technology?

- To understand and use the mechanical systems, levers and linkages.
- To construct some of the examples of levers and linkages
- To design, make and evaluate a product

What will we be doing in Design Technology?

- We will look at different leavers used in construction and identify their purpose
- We will look at how items can be linked together.
- Using our knowledge of leavers and linkages we will design our own celebration card by making labelled sketches
- We will make and evaluate our product.

Prior Learning:

Decide how to cut, shape, combine and join materials – Land Ahoy (Year 2)

Select from a range of tools and equipment – Athens V Sparta (Year 3)

Strengthen and reinforce structures – Athens V Sparta (Year 3)

Future Learning:

Measure, mark, cut and shape a range of materials – Under the Canopy (Year 4)

Investigate ways of meeting design challenges with a construction focus – You're not invited (Year 5)

Words we will be using

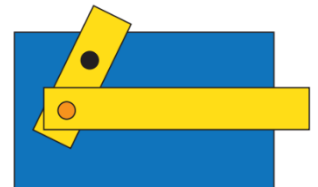|			
paper fastener (split pin) A clip for holding paper together.	**link** To join things together	**rotate** A circular motion of an object around a centre point.	**model** A miniature (small) version of something.
slide A mechanism that moves up, down or across something in a smooth way.	**operate** To work or cause something to work.	**pivot point** The point around which the object can rotate or turn.	

Under the Canopy
How can we use natural materials to design a product?

What will we be learning in Design Technology?

- To generate, develop and explain ideas for products to meet a range of needs
- Identify a purpose and establish criteria for a successful product
- Evaluate work, adapting and improving where appropriate
- Communicate design ideas in different ways
- Selecting appropriate tools and techniques, name and describe them
- Measure, mark, cut out and shape a range of materials and assemble, join and combine components and materials with some accuracy

What will we be doing in Design Technology?

- We will identify a 'persona' for our design using the information available.
- We will consider what a tribal child would like
- We will have to consider the types of materials available in the rainforest (natural materials) and the lack of electricity (technology) to design our product.
- We will design a prototype for the toy (and make product if time)
- Then we will evaluate the design and consider how the product could be improved.

Prior Learning:

Identify a purpose for what they intend to design and make – Land Ahoy! (Year 2)
Establish criteria for a successful product - That's All Folks (Year 3)

Future Learning:

Generate and clarify ideas for products, considering intended purpose – A World of Bright Ideas (Year 6)

Words we will be using

user	evaluate	traditional	needs analysis
The person who will need to use your product.	Looking at whether a product can be improved or corrected in any way.	The handing down of a culture's beliefs and customs over many years.	Identifies the main problem that needs to be solved.
design	natural materials	product	purpose
To 'think' of or plan something based on a set of information or criteria.	Materials that are found in nature and have not been made by humans.	The end result of a design, or the object that is made.	The reason why something needs making.