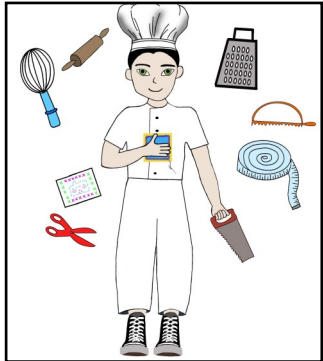




Knowledge Organiser					
Year Group:	4	Subject:	DT– mechanics	Term:	Spring 2

Concept



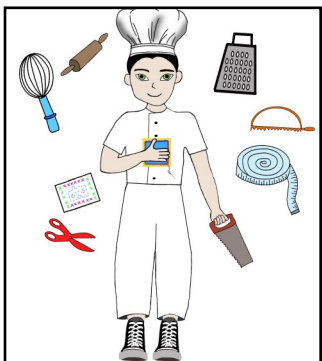
Technical knowledge
- Understand that all moving things have kinetic energy - Your slingshot car will work by storing kinetic energy in the elastic band.

Prior experiences or knowledge learnt
- Mechanisms are a collection of moving parts that produce a machine to move. - A linkage mechanism is made up of a series of levers.

Project

Skills I am practising
- Analyse slingshot and identify how they work. - Identify how a chassis and launch mechanism works. - Produce a mechanical prototype – slingshot - Design a car with a slingshot mechanism - Select appropriate materials to produce a mechanical product – slingshot chariot. - Evaluate my product and identify ways to improve my design

Sequence of learning	
1)	analyse slingshots and identify how they work.
2)	understand how a chassis and launch mechanism works and produce a mechanical prototype.
3)	design a car with a slingshot mechanism.
4)	test and evaluate our slingshot chariots.



Knowledge Organiser

Year Group:

4

Subject:

DT– mechanics

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Spring 2

Key vocabulary

Tier 2

- Launch- start or set in motion
- Mechanism- a system of parts working together in a machine; a piece of machinery.

Tier 3

- Chariot- a two-wheeled vehicle drawn by horses, used in ancient racing and warfare.
- Prototype- a first or preliminary version of a device or vehicle from which other forms are developed.
- Slingshot- a forked stick, to which an elastic strap (or a pair of elastic bands connected by a small sling)
- Chassis- the base frame of a car, carriage, or other wheeled vehicle.
- Kinetic energy- form of energy something possesses due to its motion