

Product, User, Purpose

Product: A tuk-tuk which can drive autonomously

User: The owner of a mountain tourist resort

Purpose: To move autonomously, without hitting other vehicles or obstacles

DT Strand

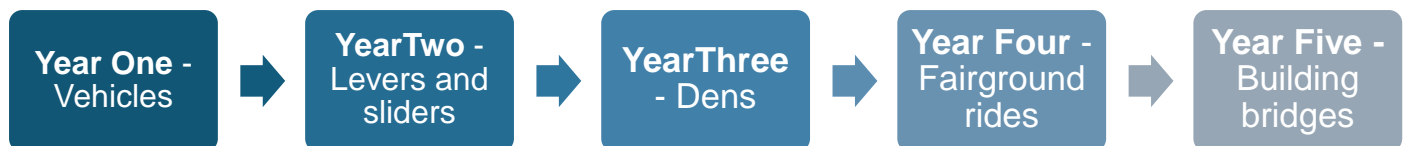


Electronics



Mechanics

DT Connections – linked prior learning:



Vocabulary:

Mechanics and Construction:

Modelling	Compression	Strut	Tension
Reinforce	Diagonal	Horizontal	Vertical
Triangulation	Frame structure	Card corners/triangles	Caster wheel
Chassis	Wooden bench hook	G clamp	

Electronics:

Program	Micro controller	LED (Light emitting diode)	System
Output devices	Input devices	Process	Algorithm
Variable	Circuit Board	Ultrasonic sensor	Battery pack

The Teaching Sequence



Design Brief



Vocabulary



Investigate



Design



Plan



Make



Evaluate

