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| **Goonhavern Primary School- Design Technology**  |
| **TOPIC: Design Technology** | **YEAR: 3** | **STRAND: Mechanisms** |

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| **What should I know already?** | **What will I know by the end of the unit?** |
| * I know that I can join materials in different ways including: PVA glue, hot glue guns, glue stick, stapling and sticky tape.
* I know that mechanisms can be used to create different movements.
* Design: That I can make a working model of different mechanisms.
* Design: That I can create a list of materials that I need to make my product.
* Design: That I can hide my mechanism by layering card (or similar on top).
* Make: I can use scissors with a high degree of accuracy.
* Make: To select materials appropriate to the task in hand.
* Evaluate: How to improve a design after self evaluating.
 | That compressed air can be used to create movements.  |
| That mechanisms can be used to create different movements.  |
| Design: How to put together a step-by-step plan of how to create a product.  |
| Design: To communicate my design through diagrams.  |
| Make : select from and use a wider range of tools and equipment to perform practical tasks[for example, cutting, shaping, joining and finishing], accurately |
| Evaluate: evaluate their ideas and products against their own design criteria and consider theviews of others to improve their work |
| **School Values** |
| **Five Ways to Wellbeing** |

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| **Vocabulary**  |
| Mechanism  | Components that work together (in a machine)  |
| Pneumatic  | Operated by air or gas under pressure  |
| Compressed Air | Air under pressure  |
| Diagram | A simplified drawing that gives an explanation  |
| Materials | Combination of items used together to make something  |
| Pivot | the central point, pin, or shaft on which a mechanism turns |
| Syringine  | a tube with a nozzle and piston or bulb for sucking in and ejecting |
| Lever | a rigid bar resting on a pivot, used to move a heavy or firmly fixed load with one end when pressure is applied to the other. |

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| **Image/diagram that helps me to articulate my knowledge/understanding**  | **Investigate!** |
|  | Explore how pneumatics work by experimenting with different mechanisms (refer to Year 2 knowledge organiser for further ideas). Use pneumatics to create a moving picture based around a chosen theme or topic-based on a story in literacy  |