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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 the  views 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 |