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| **Goonhavern Primary School- Design Technology** | | |
| **TOPIC: Design Technology** | **YEAR: 4** | **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. | How to measure to the nearest millimetre |
| How to saw accurately at 90 degrees and 45 degrees, using a bench hook. |
| How to tie a lashing. |
| How to tie a reef knot. |
| That triangles are strong shapes. |
| How to drill accurately |
| How to use a glue gun safely |
| How to draw a scale diagram where the scale is 1:1 |
| How to draw a scale diagram from a side profile. |
| How to strengthen a design |
| **School Values** | |
| **Five Ways to Wellbeing** | |

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| **Vocabulary** | |
| Mechanism | a system of parts working together in a machine; a piece of machinery. |
| Lashing | A cord used to tighten something securely |
| Millimetre | A unit of measurement |
| Diagram | A simple drawing to give an explanation of how something works |
| Lashing | A cord used to tighten something securely |
| Pivot | The central point on which something turns/moves |
| Reef Knot | A type of knot |
| 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!** |
|  | Design and make a Catapult |