**STEM Challenges Progression**

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| **Year stage** | **Project 1** | **Assessment stop: Write** | **Project 2** | **Project 3** | **Self-assessment of skills** |
| **Early Level** | Learning Engineering through play e.g. construction challenges with blocks, Lego etc, junk modelling, investigating materials, toy marble runs, ramps, parachutes, floating/sinking etc. | | | | |
| **P2** | Perfect pillars and bridge | First Level:  Writing task on teamwork.  Self-assess skills. | Towers and supporting a weight | Getting down safely! – slide and parachute | Evaluate and  self-assess skills. |
| **P3** | Rafts | Mars landers | Teepees |
| **P4** | Shipwreck challenge – foil boats | Stationery holders | Lifting weights – simple pulleys |
| **P5** | Balloon-powered rafts | Second Level:  Writing task on skills. Self-assess skills. | Zip wires | Winding mechanisms – drawbridge and well |
| **P6** | Vertical marble runs | Aqueducts | Marble mazes |
| **P7** | Viewing platforms | Mars landers with parachute | Chain reaction machine |

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