

STEM Challenges Progression

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| Early Level | Year 1, 2, 3 | Learning engineering through play which may include construction challenges with blocks, Lego, junk modelling, investigating materials, toy marble runs, ramps, parachutes, floating/sinking etc. | | | | Evaluate and self-assess skills using SLC Skills Passports |
| First Level | Year 1 | Perfect pillars and bridge | First Level: <u>Writing task on teamwork</u> Self-assess skills using <u>SLC Skills Passports</u> | Mars landers | Lifting weights-simple pulleys | Evaluate and self-assess skills using SLC Skills Passports |
| | Year 2 | Rafts | | Towers and supporting a weight | Teepees | |
| | Year 3 | Shipwreck challenge- foil boats | | Stationery holders | Getting down safely! Slide and parachute | |
| Second Level | Year 1 | Vertical marble run | Second Level: <u>Writing task on skills</u> Self-assess skills using <u>SLC Skills Passports</u> | Mars landers with parachute | Winding mechanisms-drawbridge and well | Evaluate and self-assess skills using SLC Skills Passports |
| | Year 2 | Balloon powered rafts | | Chain reaction machine | Marble mazes | |
| | Year 3 | Viewing platforms | | Zip wires | Aqueducts | |
| STEM Challenge Progression resource link which includes additional STEM challenges that can be used to supplement the above and Winter STEM challenges | | | | | | |