

2022/23 Spring Syllabus Future Skills Grade 5

Cargo Drop			
Week	Stage	Syllabus content	Note
1	Ask	Project introduction – Context and problem to be solved.	p. 2-3
2	Imagine	Inquiry - Energy Transfer	p. 3-4
3	Imagine	Research and brainstorming on materials	p. 4
4	Plan and Design	Study the various options laid out during the imagine stage to plan your design Select structure design	p. 4-5
5	Plan and Design	Finalize the design with fully labeled sketches.	p. 5
6	Create	Put the product together, reflect on progress and make necessary adjustments.	-
7	Create	Put the product together, reflect on progress and make necessary adjustments.	-
8	Test	Test your product and observe if it meets the test conditions as outlined. Make observations.	p. 6
9	Communicate Results	Analyze test results and make conclusions. Reflect on areas for improvement in your design.	p. 6
10	Redesign /Retest	Make changes to your design and retest it. Analyze results	p. 7

Catapult			
Week	Stage	Syllabus content	Note
1	Ask	Project introduction – Context and problem to be solved.	p. 2-3
2	Imagine	Research. Inquiry - Newton's Second Law and Angles	p. 4-5
3	Imagine	Research. Inquiry - Newton's Second Law and Angles	p. 4-5
4	Plan and Design	Study the various options laid out during the imagine stage to plan your design. Select structure design. Study material and brainstorm with your group.	p. 6-7
5	Plan and Design	Finalize the design with fully labeled sketches.	p. 6-7
6	Create	Put the product together, reflect on progress and make necessary adjustments.	-
7	Create	Put the product together, reflect on progress and make necessary adjustments.	-
8	Test	Test and observe your product's performance. Evaluate it against the design constraints and test requirements.	p. 8
9	Communicate Results	Analyze test results and make conclusions. Reflect on areas for improvement in your design.	p. 9
10	Redesign /Retest	Make changes to your design and retest it. Analyze results	p. 9-10