KANG CHIAO INTERNATIONAL SCHOOL 康橋國際學校

Fall 2023/24 Future Skills Syllabus Grade 3

Tallest Tower			
Week	Stage	Term 1 Syllabus content	Note
1	Ask	**Project introduction – Reach for the sky.**	
2	Imagine	**Engineering marvels and three different types of towers**	
3	Imagine	**Famous towers and world-class engineering**	
4	Plan	**Research to compare and contrast different towers.**	
5	Plan	**Review the material, project brief, and design constraints.**	
6	Create	**Build the tallest tower according to your design keeping in mind the constraints, material as well as testing criteria.**	
7	Create	**Build the tallest tower according to your design keeping in mind the constraints, material as well as testing criteria.**	
9	Test	**See if your prototype can hold up against the design constraints.**	
9	Test	**See if your prototype can hold up against the design constraints.**	
10	Communicate	**Record and share – Present your findings to your class as recorded in your Future Skills report.**	
Earthquake Resistant Structures			
Week	Stage	Term 2 Syllabus content	
11	Ask	**Project introduction – Context and problem to be solved.**	
12	Imagine	**Research.** **What are Earthquakes?**	
13	Imagine	**Research.** **Earthquake-resistant structures.**	
14	Plan	**Study Tuned Mass Dampers and Base isolation.** **Select structure design.** **Study material and brainstorm.**	
15	Plan	**Finalize structure design with fully labeled sketches.**	
16	Create	**Put the structure together, reflect on progress, and make necessary adjustments.**	
17	Create	**Put the structure together, reflect on progress, and make necessary adjustments.**	
18	Test	**Observe if the structure can withstand a simulated earthquake.**	

19	Test	**Observe if the structure can withstand a simulated earthquake.**	
20	Communicate	**Record and share – Present your findings to your class as recorded in your Future Skills report.**	