Varsity College
Year 8 – Engineering & Digital Solutions

Term 3, 2023

Week	Date	Topics	Assessment
1	10-14 July **Athletics Carnival - Wed**	• General class induction • Introduction to Scratch	
2	17-21 July	• Scratch coding – generate efficient code using loops	
3	24-28 July	• Scratch coding – generate codes using 'while loops'	
4	31 July – 4 August	• Scratch coding – create and code variables to keep score and change the display properties of sprites	
5	7-11 August	• Scratch coding – generate code to create clones of sprites which will move across the screen	
6	14-18 August	• Scratch coding – incorporate sound effects	
7	21-25 August	• Project development – identify the problem and develop a solution	
8	28 August – 1 Sept. **GC Show PH - Fri**	• Project development – creating backgrounds sprites and code • Annotate codes	**Draft Due**
9	4-8 September	• Project development – obstacle animation, scoring and sound FX	
10	11-15 September	• Project conclusion – game refinement and evaluation • Peer review of games	**Project Due**
School Holidays: Saturday September 16 – Monday October 2			

Term 4, 2023

Week	Date	Topics	Assessment
1	2-6 October **King's Birthday PH - Mon**	• Onguard • Design process and understanding hydraulics	
2	9-13 October	• Hydraulics as a motion and force multiplier • Success Criteria	
3	16-20 October	• Material investigation • Evaluation of existing designs • Developing Ideas – sketching and refining	
4	23-27 October	• Producing products – manufacturing prototypes	
5	30 Oct – 3 Nov	• Producing products – manufacturing prototypes	
6	6-10 November	• Producing products – manufacturing prototypes	
7	13-17 November	• Producing products – manufacturing prototypes	**Draft Due**
8	20-24 November	• Producing products – refining prototypes • Final product testing	
9	27 Nov – 1 Dec	• Analysis of Results and Evaluation	**Project Due**
10	4-8 December	**Final Week Alternate Program**	
School Holidays: Saturday December 9 – Sunday January 21, 2024			