TSS Primary Computing MTP 2022-2023
Year 4 Block 2 – Repetition with Dash & Dot

Week	Key Targets and Learning Objectives	Key Activities	Key Vocabulary
1	• Follow and understand linear algorithms. • Know that an algorithm is a precise set of instructions. • Understand that programs instruct computers how to run algorithms. • Know how to recreate algorithms as programs. • Understand what problems are best solved with sequencing. • Use sequencing to revise code and complete coding challenges in an iterative process.	• Students will be introduced to coding using Blockly and Dash the robot and will explore sequencing with Dash. • https://portal.makewonder.com/#/curriculum/lights-sounds-and-animations-with-dash	• Algorithm • Program • Sequence • lights (LED) • animation • sound
2	• Identify and correct a single error in algorithms that represent everyday events or tasks. • Know that an algorithm is a precise set of instructions. • Understand that programs instruct computers how to run algorithms. • Know how to recreate algorithms as programs. • Understand what problems are best solved with sequencing. • Use sequencing to revise code and complete coding challenges in an iterative process.	• Students will review their previous programming of sequencing with lights, sounds, and animation blocks and further explore using sequencing with Dash. • They will use Blockly preset programs and Challenge Cards to practice their new skills. • https://portal.makewonder.com/#/curriculum/movements	• Algorithm • Program • Sequence • move (forward, back, left, right)
3	• Follow, understand, edit and correct algorithms that use iteration, including count-controlled loops. • Use loops to revise code and complete coding challenges in an iterative process.	• Students will explore using the Repeat block to define a specific number of loops. • They will use Blockly preset programs and Challenge Cards to practice their new skills. • https://portal.makewonder.com/#/curriculum/repeat-x-with-dash	• Algorithm • Program • Repeat • Loop • count controlled
4	• Follow, understand, edit and correct algorithms that use iteration, including count-controlled loops. • Understand how and when to use multiple loops.	• Students will use multiple loops in a program. • They will use Blockly preset programs and Challenge Cards to practice their new skills.	• Algorithm • Program • Repeat • Loop

	• Use multiple loops to revise code and complete coding challenges in an iterative process.	• https://portal.makewonder.com/#/curriculum/multiple-loops	• count controlled • multiple
5-7	• Follow, understand, edit and correct algorithms that use iteration, including count-controlled loops. • Predict the outcome of algorithms that contain repetition • Use nested loops to revise code and complete coding challenges in an iterative process. • Understand the definition of a nested loop. • Distinguish between when a nested loop should be used instead of a simple or regular loop.	• Students will learn how and why to use Nested Loops. • They will use Blockly preset programs, puzzles and Challenge Cards to practice their new skills. • https://portal.makewonder.com/#/curriculum/nested-loops	• Algorithm • Program • Repeat • Loop • count controlled • nested