TSS Primary ICT MTP 2021-2022
Year 5 Block 5 – Scratch – Selection in Quizzes

Week	Key Targets and Learning Objectives	Key Activities	Key Vocabulary
1	To join the Scratch community	• In this lesson students will create accounts at scratch.mit.edu using school credentials while paying particular attention to personal information • Once Scratch accounts are confirmed students will continue their online coding course at code.org	• Scratch • Email • Gender • personal information • D.O.B
2	To explain how selection is used in computer programs • I can recall how conditions are used in selection • I can identify conditions in a program • I can modify a condition in a program	• In this lesson, learners revisit previous learning on 'selection' and identify how 'conditions' are used to control the flow of actions in a program. • They are introduced to the blocks for using conditions in programs using the Scratch programming environment. • They modify the conditions in an existing program and identify the impact this has.	• Selection • Condition • True • False • count-controlled loop
3	To relate that a conditional statement connects a condition to an outcome • I can use selection in an infinite loop to check a condition • I can identify the condition and outcomes in an 'if… then… else…' statement • I can create a program with different outcomes using selection	• In this lesson, learners will develop their understanding of selection by using the 'if… then… else...' structure in algorithms and programs. • They will revisit the need to use repetition in selection to ensure that conditions are repeatedly checked. • They identify the two outcomes in given programs and how the condition informs which outcome will be selected. • Learners use this knowledge to write their own programs that use selection with two outcomes.	• Selection • Condition • True • False • Outcomes • conditional statement (the linking together of a condition and outcomes) • algorithm • program • debug
4	To explain how selection directs the flow of a program • I can explain that program flow can branch according to a condition • I can design the flow of a program which contains 'if… then… else…' • I can show that a condition can direct program flow in one of two ways	• In this lesson, learners consider how the 'if… then... else…' structure can be used to identify two responses to a binary question (one with a 'yes or no' answer). • They identify that the answer to the question is the 'condition', and use algorithms with a branching structure to represent the actions that will be carried out if the condition is true or false.	• Selection • Condition • True • False • Outcomes • Question • Answer • Algorithm

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		• They learn how questions can be asked in Scratch, and how the answer, supplied by the user, is used in the condition to control the outcomes. • They use an algorithm to design a program that uses selection to direct the flow of the program based on the answer provided. • They implement their algorithm as a program and test whether both outcomes can be achieved.	• Program • debug
5	To design a program which uses selection • I can outline a given task • I can use a design format to outline my project • I can identify the outcome of user input in an algorithm	• In this lesson, learners will be provided with a task: to use selection to control the outcomes in an interactive quiz. • They will outline the requirements of the task and use an algorithm to show how they will use selection in the quiz to control the outcomes based on the answer given. • Learners will complete their designs by using storyboards to identify the questions that will be asked, and the outcomes for both correct and incorrect answers. • To demonstrate their understanding of how they are using selection to control the flow of the program, learners will identify which outcomes will be selected based on given responses.	• Task • Design • Algorithm • Input • Program • Selection • Condition • outcomes
6	To create a program which uses selection • I can implement my algorithm to create the first section of my program • I can test my program • I can share my program with others	• In this lesson, learners will use the Scratch programming environment to implement the first section of their algorithm as a program. • They will run the first section of their program to test whether they have correctly used selection to control the outcomes, and debug their program if required. • They will then continue implementing their algorithm as a program. • Once completed, they will consider the value of sharing their program with others so that they can receive feedback. • Learners conclude the lesson by using another learner's quiz and providing feedback on it.	• Implement • Design • Algorithm • Program • Selection • Condition • Outcome • Test • run
7	To evaluate my program • I can identify ways the program could be improved	• In this lesson, learners will return to their completed programs and identify ways in which the program can be improved.	• Implement • Design

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	• I can identify the setup code I need in my program • I can extend my program further	• They will focus on issues where answers similar to those in the condition are given as inputs, and identify ways to avoid such problems. • Learners will also consider how the outcomes may change the program for subsequent users, and identify how they can make use of setup to provide all users with the same experience. • They will implement their identified improvements by returning to the Scratch programming environment and adding to their programs. • They conclude the unit by identifying how they met the requirements of the given task, and identifying the aspects of the program that worked well, those they improved, and areas that could improve further.	• Algorithm • Program • Debug • Test • Setup • Selection • Condition • Outcome • Share • Evaluate • constructive