TSS Primary Computing MTP 2023-2024
Year 5 Block 2 – Be a Data Engineer

Week	Key Targets and Learning Objectives	Key Activities	Key Vocabulary
1	Know how to use the arithmetic operators, including +, –, *, / in a spreadsheet. Identify the impact of changes to individual data items.	• Review prior learning (Complete get started and warm up activities on LB86-87) • In Excel create the spreadsheet shown in the Learner's Book on page 88 and follow the given instructions on how to enter simple formulae. Label the worksheet "Formulae" • In a second worksheet create and complete the exercise using all 4 operators. Label the worksheet "Operators". Learners should realise that using cell references instead of numbers can save a lot of time if numbers in calculations need to change. (P88-89) • Save to OneDrive and send on Firefly.	• Cell • Cell reference • Column • Row • Formula
2	Know how to use simple functions, such as SUM and AVERAGE, in a spreadsheet. Identify the impact of changes to individual data items.	• Open and review last week's lesson • Copy 1st worksheet (Formulae) and label it "SUM". Refer to P90 and model SUM function on IWB • Create new sheet labelled "AVERAGE". Model formula and function on IWB (P90-91) • Create new sheet called "Functions" and have students complete exercise on P91 individually or pairs/peers. • Save to OneDrive and send on Firefly.	• Function • SUM • AVERAGE • MEAN • ARGUMENT
3	Know that cells can be restricted to accept only certain data types, limited to text, date and number.	• Review formulae and functions • Create a new sheet called "DV1" and copy spreadsheet from P92/3. • Define and discuss data types and data validation • Model adding data validation to each field (Student ID, Name, DOB, No. of clubs, Average Mark) • Students create 2 new sheets (DV2 & DV3) to complete activities on P94	• Data Validation • Data Type • Number • Text • Date • Valid • Value
4	Know how to identify data based on a single criterion, including data that matches a key word.	• Open and review last week's lesson • Create a new sheet called "Supermarket" and copy spreadsheet from P95. (.xlsx available for LAP's) • Model filtering data that matches a single criteria (P96/7)	• Filtering • Criteria • Criterion • Data • Value

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		• Students create a new sheet called “Pizza” and complete practise activity from P98. **(.xlsx available for LAP’s) Send screenshots for a-d on Firefly.**	
5	Know how to use the arithmetic operators, including +, −, *, / and simple functions, such as SUM and AVERAGE, in a spreadsheet. Know that cells can be restricted to accept only certain data types, limited to text, date and number. Know how to identify data based on a single criterion, including data that matches a key word.	Go Further • Students work in small groups (3 or 4) to complete and individually submit the Microsoft Form for the “Go Further” activity on P99/100 Remaining time at code.org	See above
6	Know how to use the arithmetic operators, including +, −, *, / and simple functions, such as SUM and AVERAGE, in a spreadsheet. Know that cells can be restricted to accept only certain data types, limited to text, date and number. Know how to identify data based on a single criterion, including data that matches a key word.	My Project • Students work in small groups (3 or 4) to complete and individually submit an .xlsx file named “My Project Name Class” containing completed spreadsheet and answers. (Form?) Remaining time at code.org	See above
7	Know how to use the arithmetic operators, including +, −, *, / and simple functions, such as SUM and AVERAGE, in a spreadsheet. Know that cells can be restricted to accept only certain data types, limited to text, date and number. Know how to identify data based on a single criterion, including data that matches a key word.	**Assessment** • Students work individually to complete and submit the Microsoft Form for the “Challenge Yourself” activity on P101 Remaining time at code.org	See above