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**Knowledge Rich Curriculum Plan**

Year 8 - Topic 5: Real World Modelling



| **Lesson/Learning Sequence** | **Intended Knowledge:**  *Students will know that… Students will know how to…* | **Tiered Vocabulary** | **Prior Knowledge:**  *In order to know this… Students need to already know that…* | **Assessment** |
| --- | --- | --- | --- | --- |
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| **1** | * To understand the following terms: cell, cell reference, column, row * To understand the term formatting and why we apply these to spreadsheets * To apply basic formatting techniques such as colour fill, font, border, merge and currency * Add in a simple formula. * Able to create a simple spreadsheet | Column  Row  Appearance  Currency  Spreadsheet  Format  Cell  Cell reference  Font  Merge  Data type | * Why we would change the appearance of a document * How to layout a table with headings | Questioning  Worksheet |
| **2** | * Enter data into a spreadsheet and identify cell references correctly * Use different formulae for addition, subtraction, multiplication division * Understand how to use brackets to change the order of calculation | Calculate  Column  Row  Addition  Subtraction  Multiply  Divisio  Spreadsheet  Cell reference  Formula | * Able to create a simple spreadsheet * Apply some basic formatting to a spreadsheet. * Format a spreadsheet appropriately including changing column widths, merge and center and currency formatting. * Add in a simple formula. | Questioning  Worksheet |
| **3** | * Use the basic functions SUM, AVERAGE, MIN and MAX in a spreadsheet. * Use all of the above formula and functions effectively. * Use the COUNTA and TEXT functions. | Average  Minimum  Maximum  Calculate  Spreadsheet  Formula  Function  Cell  Autofill  SUM  MIN  MAX  COUNTA | * Enter data into a spreadsheet and identify cell references correctly * Use different formulae for addition, subtraction, multiplication division * Understand how to use brackets to change the order of calculation | Retrieval Task  Questioning  Worksheet |
| **4** | * How to Sort a spreadsheet and apply a basic filter with help. * Use the > and < operators in a formula correctly. * Filter data by more than one criteria | Sort  Filter  Less than  Greater than  Criteria  Range  Data  Operator | * Basic functions SUM, AVERAGE, MIN and MAX in a spreadsheet. * COUNTA function to find any cells that contain data. | Questioning  Worksheet |
| **5** | * How to Create a bar and pie chart. * Format the graphs appropriately and use data which is not next to each other on the spreadsheet. * Create a spreadsheet and graph from scratch and use the graph to answer questions. | Graph  Appearance  Compare  graph  Sort  Pie chart  Line graph  Bar chart  Data  Format  Formula | * How to Sort a spreadsheet and apply a basic filter with help. * Use the > and < operators in a formula correctly. * Filter data by more than one criteria | Questioning  Worksheet |
| **6** | * Students will know how to answer the end of unit assessment using their prior knowledge. * Students will know how to improve on their work from previous lessons in the unit. | Students will need to use all of the vocabulary from the previous lessons. | * Students need to know all of the intended knowledge from the previous lessons in the unit. | End of Unit Assessment |