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**Knowledge Rich Curriculum Plan**

Year 8 - Topic 6: Project Management



| **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 – data base introduction**  | * To understand how data is stored using tables, records and fields.
* To identify differences between paper based and computer based databases.
 | Data TableFieldsRecordsReportQueryPrimary keydatabaseFormatCellCell referenceFontMergeData type | * To know what is meant by the term data
* To have an understanding that organisations store data about you
 | QuestioningWorksheet |
| **2 – validation rules**  | * To fully be able to explain the difference between a field, cell and record
* You will learn what a database is used and how they are used.
* Understand what a data type is and what they are used for.
* To understand that The primary key is a field that contains data that is unique for each record.
* To begin to develop skills on Microsoft access such as validation rules and text.
 | data TableFieldsRecordsReportValidation QueryPrimary keydatabaseFormatCellCell referenceFontMergeData type | * To understand how data is stored using tables, records and fields.
* To understand why data is stored using tables, record and fields
 | Retrieval task QuestioningWorksheet |
| **3. Database searches**  | * To understand how data is categorised into a range of data types
* To effectively query a database to find specific information
 | data TableFieldsRecordsReportValidation Boolean QueryPrimary keydatabaseFormatCellCell referenceFontMergeData type | * To know that data can be represented by a number of different data types
* To have an understanding that databases can be searched to find specific information
 | Retrieval TaskQuestioning Worksheet |
| **4. Creating a database** | * To be able to develop a fully function database in Microsoft access
* To be able to create a query and understand why we need them
* To understand the job of a look up wizard
 | data TableFieldsRecordsReportqueryValidation Boolean QueryPrimary keydatabase | * To understand what the term fields means
* To understand the use of a primary key
* To understand the difference between datatypes
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| **5 queries**  | * To understand what a query is
* To understand why we use queries in databases
* To understand how to create a query
 | data TableFieldsRecordsReportqueryValidation Boolean QueryPrimary keydatabaseFormatCellCell referenceFontMergeData type | * Basic functions SUM, AVERAGE, MIN and MAX in a spreadsheet.
* COUNTA function to find any cells that contain data.
 | QuestioningWorksheet |
| **6 Assessment**  | * 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. | QuestioningWorksheet |