Year 13 LONG-TERM SEQUENCE for IT

Bishop Milner CATHOLIC COLLEGE

Year 13 LONG-TERM SEQUENCE for IT

The curriculum for this stage of students' education has been designed to introduce students to computer systems, how they work and their uses, both for personal and business use. The content of the specification has been followed to ensure that students have the required knowledge base whilst introducing the concept and skill of applying the use of IT systems to real life scenarios, in both positive and negative ways. In Y12 students studied how IT can be used in businesses and this unit and the subsequent unit of study look at specific application of applications software to business scenarios. Students are encouraged to support their learning with regular background reading in relation to advances in technology and legal, moral and ethical issues surrounding the use of IT.

<u>HALF TERM 1:</u> DATABASES (UNIT 2)

STUDENTS MUST KNOW:

1. Learning Aim A: Structure of RDMS
   - RDBMS
   - Manipulating data structures
   - Normalisation
2. Learning Aim B: Designing RDMS:
   - Relational database design
   - Design documentation

HOW THIS WILL BE ASSESSED:
Practice databases
External assessment January 2021

<u>HALF TERM 2: DATABASES</u> (Unit 2)

STUDENTS MUST KNOW:

1. Learning Aim C: Creating a database structure:
   - Produce a database solution
   - Testing a refining a database solution
2. Learning Aim D: Evaluating a database solution:
   - Database design evaluation
   - Evaluation of testing
   - Overall evaluation of the database

HOW THIS WILL BE ASSESSED:
Practice databases
External assessment January 2021

<u>HALF TERM 3: DATA MODELLING (UNIT 5)</u>

STUDENTS MUST KNOW:

1. Learning aim B: Designing a data model
   - Functional specification
   - Model design
   - Reviewing and refining model designs
2. Learning aim C: Developing a data model
   - Developing a solution
   - Testing
   - Reviewing and refining
   - Skills, knowledge and behaviour

HOW THIS WILL BE ASSESSED:
Practice spreadsheets
Coursework using Pearson authorised assignment brief (assignment 2)

NB this half term focuses on teaching the practical skills required in order to complete the coursework.

<u>HALF TERM 4: DATA MODELLING (UNIT 5)</u>

STUDENTS MUST KNOW:

1. Learning aim B: Designing a data model
   - Functional specification
   - Model design
   - Reviewing and refining model designs
2. Learning aim C: Developing a data model
   - Developing a solution
   - Testing
   - Reviewing and refining
   - Skills, knowledge and behaviour
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HOW THIS WILL BE ASSESSED:
Coursework using Pearson authorised assignment brief (assignment 2)
NB this half term focuses on students completing coursework using the skills learnt in the previous half term.

<u>HALF TERM 5: DATABASES AND SPREADSHEETS</u>

STUDENTS MUST KNOW:

1. Revision for unit 1 and unit 2 resits
2. Completing coursework for unit 5

HOW THIS WILL BE ASSESSED:
Revision tasks
External assessment – Summer 2021
Coursework for unit 2 (assignments 1 and 2) using Pearson authorised assignment briefs

<u>HALF TERM 6: STUDY LEAVE</u>

Embedding this knowledge can be supported at home by practising the practical skills learning in lessons. This can be done using either Microsoft Office software or open source spreadsheet/database software.