Creating Systems to Manage Information

MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 2.1 Jan - Feb	Unit 2 Learning Aim: A	Unit 2 Learning Aim: A	Unit 2 Learning Aim: A	Unit 2 Learning Aim: A	Unit 2 Learning Aim: B
TOPIC (S)	**A1 Relational database management systems**	**A2 Manipulating data structures and data in relational databases**	**A3 Normalisation**	**Assessment**	**B1 Relational database design**
Knowledge & Skills development	Types of RDBMS, characteristics and models	Tools for modifying, defining and removing data structures	The role of normalisation to develop efficient data structures	Demonstration of theory learnt in the unit of study	Understand a selection of RDBMS and SQL software, tools, techniques and processes
Assessment / Feedback Opportunities	Classroom activity - Class Discussion - Questioning pupils – verbal feedback – CA questions			Practice activity	Classroom activity - Class Discussion - Questioning pupils – verbal feedback – CA questions
Cultural Capital	- Variations of technology - Global Technology and Society - Impact of technology				
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	- Listening to others - Responding suitable in discussions - Taking part in group activates				
Reading opportunities	Database Design for Mere Mortals: A Hands-On Guide to Relational Database Design Database Systems: A Practical Approach to Design, Implementation, and Management Access 2016 For Dummies				
Key Vocabulary	Relational data structures, relational algebra sets, database relations, relational keys, integrity constraints, entity relationships, updating, inserting, deletion, queries, reports, security, integrity, recovery, primary keys, foreign keys, composite keys, indexing, data dictionary, normalisation				Conceptual, logical, physical, one-to-many, user interface, prototyping, correctness of data
Digital Literacy	Use of technology Digital research methods Use of range of software				
Careers	Database Administrator - SQL Engineer - Data Modeler - Oracle Engineer - Database Analyst				