**Chesterton computing key concepts**

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|  | **Autumn 1**  | **Autumn 2**  | **Spring 1**  | **Spring 2**  | **Summer 1** | **Summer 2**  |
| **Year 1** | **Digital Painting**Creating MediaEffective use of Tools | **Grouping Data**Data & Information | **Digital Writing**Effective use of Tools | **Programming animation**Design & DevelopmentPrograming | **Technology around us**Computing SystemsSafety & Security | **Moving a robot**Algorithm Design and Development Programing |
|  | Autumn 1  | Autumn 2  | Spring 1  | Spring 2  | Summer 1 | Summer 2  |
| Year 2  | **Programming Quizzes**Algorithm Design and Development Programing | **Digital Photography**Creating MediaEffective use of Tools | **Pictograms**Data & InformationEffective use of Tools | **Making Music**Design & DevelopmentEffective use of Tool | **Information technology around us**Computing SystemsSafety & Security | **Robot algorithms**Algorithm Design and Development Programing |
|  | Autumn 1  | Autumn 2  | Spring 1  | Spring 2  | Summer 1 | Summer 2  |
| **Year 3** | **Connecting Computers**Computing SystemsSafety & SecurityNetworks | **Desktop publishing**Creating MediaEffective use of ToolsDesign & Development | **Sequencing Sounds**Algorithm Design & DevelopmentPrograming | **Stop frame animation**Creating MediaEffective use of ToolsDesign & Development | **Branching Database**Data & Information | **Events and actions in programming** Algorithm Design and Development  |
|  | Autumn 1  | Autumn 2  | Spring 1  | Spring 2  | Summer 1 | Summer 2  |
| **Year 4**  | **Repetition in shapes**Algorithm Design & DevelopmentPrograming | **The internet**NetworksSafety & Security | **Data logging**Computing SystemsData & Information | **Repetition in games**Algorithm Design & DevelopmentPrograming | **Photo editing** Creating MediaEffective use of Tools | **Audio production** Creating MediaEffective use of Tools |
|  | Autumn 1  | Autumn 2  | Spring 1  | Spring 2  | Summer 1 | Summer 2  |
| **Year 5** | **Sharing information** NetworksSafety & Security | **Flat File Databases**Data & Information | **Website creating**Creating MediaEffective use of Tools | **Selection in physical computing** Computing SystemsPrograming | **Vector drawing**Creating MediaEffective use of Tools | **Selection in quizzes**Algorithm Design & DevelopmentPrograming |
|  | **Autumn 1**  | **Autumn 2**  | **Spring 1**  | **Spring 2**  | **Summer 1** | **Summer 2**  |
| **Year 6**  | **Introduction in spreadsheets**Data & Information | **Internet communication**NetworksSafety & Security | **Video production**Creating MediaDesign & DevelopmentEffective use of Tools | **Variables in games**Algorithm Design & DevelopmentPrograming | **3D modelling**Effective use of ToolsDesign & Development | **Sensing** Algorithm Computing SystemsDesign & DevelopmentPrograming |