WHAT WE TEACH WHEN: Year 8

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|  | **HALF TERM 1** | **HALF TERM 2** | **HALF TERM 3** | **HALF TERM 4** | **HALF TERM 5** | **HALF TERM 6** |
| **Art** | Context and Culture | Pattern and Illustration | New Media and Craft | Contextual Research | Illustration | Contemporary Portraiture |
| **Computer Science** | Developing for the web | Representations: from Clay to Silicon | Mobile App Development | Media: Vector Graphics | Computing Systems | Introduction to Python programming |
| **Design & Technology Product Design** | Product Design Sustainability, the environment and the 6 "R's" | Project: passive speaker  Sound waves, amplitude and  frequency | Project: recycled jar lamp  Electronics, systems and components.  Designers past and present | Project: board game Biomimicry,  prototyping and finishing techniques.  CAD/CAM: 3D  printing | Emerging technologies, design and enterprise skills | Project: engineering challenge Motion, mechanisms and levers.  CAD/CAM:  laserCAM and/or 3D printing |
| **Design & Technology Textiles Technology** | Textile Technology Fibres to fabrics, material properties and structures | Textile decorative workshops.  Culture and identity | Project:  e-textiles skull key fob  Systems, circuits and intelligent clothing | Rotation with Food and Nutrition course | | |
| **Drama** | Storytelling | Melodrama | Practical work - bullying theme | Refugee Boy | Stand up for your rights | Practical exploration of devising and rehearsal |
| **English** | The Woman in Black | The Woman in Black | Much Ado About Nothing | Much Ado About Nothing | Time and Place Poetry | Character Writing |

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| **Food and Nutrition** | | Rotation with Design and Technology: Textiles Technology | | | | | Food provenance: staple foods. Food Science: functional properties of  ingredients | | | Nutrition: food choices,  nutrition through life-stages, dietary needs | | Nutrition: understanding the science to make the right choices both for health and function |
| **Geography** | | Our hazardous world | | | | Urban issues | | | | Cold environments | | |
| **History** | | The Stuarts | | | | The Industrial Revolution | | | | The British Empire and the Slave Trade | | |
| **Maths** | | Number: Round to a given degree of accuracy. Converting between fractions, decimals and percentages. Calculating percentages of amounts.  Statistics: calculating averages | Number: Converting between index form and expanded form. Calculating with indices, simplifying with indices  Algebra: Expand brackets, factorise expressions. Solve equations with fractions. Substitution into expressions,  finding the nth term | | | Algebra: substitution. Recognising the gradient and y intercept of a straight line graph, drawing inequalities, drawing straight line graphs, describing inequalities | Ratio and Proportion : calculating with ratio,  Representing and compare data in pie charts | | | Geometry:  Angles within parallel lines  Bearings.  Angles in triangles and polygons and mensuration of circles. Area of 2D shapes | | Geometry:  Transformations of shapes.  Statistics: Scatter graphs,  Probability: basics of probability |
| **MFL:**  **French/ German/ Spanish** | | My family and friends | My hobbies | | | My school | | | | Where I live | | |
| **Music** | | *Rotation*  The Blues/Remix | | | | *Rotation*  Structure and Form/Minimalism | | | | *Rotation*  Samba/Hip Hop | | |
| **Religion Ethics and Philosophy** | | Where do we come from | Why do we suffer? | | | | Where are we going? | | | | | Humanism and World Views |
| **Science** | | Motion Energy  Acids and Alkalis | Chemical Reactions 2, Photosynthesis | | | Electricity, respiration | Light | | | Inheritance and evolution, earth structure and rocks | | Earth and atmosphere Space |