

## Year 9 Big Pictures

### Art

<b>Autumn 01</b> <b>Weeks 1 – 6 (6 weeks)</b>	<b>Autumn 02</b> <b>Weeks 8 – 15 (8 weeks)</b>
<b>Content</b> <u>Under the Microscope (2D)</u> Using a series of materials draw different cells and images of viruses concentrating on colour, design and form.	<b>Content</b> <u>Under the microscope (2D)</u> Using a series of materials draw different cells and images of viruses concentrating on colour, design and form.
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: AO1 Research into artists Kamenetsky and Reiss AO3 Drawings using a variety of media AO2 Refinement of drawings/ideas AO4 Final outcome: Circular painting (Use of formal elements), silk painting and 3d model	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: AO1 Research into artists Kamenetsky and Reiss AO3 Drawings using a variety of media AO2 Refinement of drawings/ideas AO4 Final outcome: Circular painting (Use of formal elements), silk painting and 3d model
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<b>Spring 01</b> <b>Weeks 16 - 19 (4 weeks)</b>	<b>Spring 02</b> <b>Weeks 21 (Spring 01) – 26 (6 weeks)</b>
<b>Content</b> <u>Coffee cup – Graphic Design</u> Introduction to illustration design and graphic product design.	<b>Content</b> <b>Coffee cup – Graphic Design</b> Introduction to illustration design and graphic product design.
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: AO1 Research monster designs and John Burgerman. AO3 Drawings and experimentation. Use of different materials. AO2 Refinement of ideas for final outcome AO4 Illustration ready for print onto their coffee cup	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: AO1 Research monster designs and John Burgerman. AO3 Drawings and experimentation. Use of different materials. AO2 Refinement of ideas for final outcome AO4 Illustration ready for print onto their coffee cup.
<b>Big Test – Week 25 (11 weeks of prep)</b>	
<b>Summer 01</b> <b>Weeks 27 – 31 (5 weeks)</b>	<b>Summer 02 (upto Big Test)</b> <b>Weeks 33 – 35 (3 weeks)</b>
<b>Content</b> <u>Cultural Project</u> Study African art and the art of Haida, Japan, Egypt to produce a selection of experiments and a mask.	<b>Content</b> <u>Cultural Project</u> Study African art and the art of Haida, Japan, Egypt to produce a selection of experiments and a mask.
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: AO1 Research different cultures AO2 Produce drawings and experiments including printing, paper cutting, card construction. AO3 Refine ideas and plan final piece AO4 Produce a 3D mask using cardboard (and a silk painting/batik)	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: AO1 Research different cultures AO2 Produce drawings and experiments including printing, paper cutting, card construction. AO3 Refine ideas and plan final piece AO4 Produce a 3D mask using cardboard (and a silk painting/batik)
<b>Big Test – Week 35 (9 weeks of prep)</b>	

## Year 9 Big Pictures

### Business

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks) 18 lessons</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks) 20 lessons</i>
<b>Content</b> <ul style="list-style-type: none"> <li><u>Introduction to Business</u></li> </ul>	<b>Content</b> <u>Introduction to Marketing</u>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To know the difference between goods and services, national, local, global</li> <li>To be able to develop an idea and pitch for the Dragons Den Competition</li> <li>To understand the role of entrepreneurship</li> <li>To understand the different sectors of business</li> <li>To understand the aims and objectives of businesses</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To understand the purpose of market research</li> <li>To understand how a business segments its market</li> <li>To be able to analyse a competitive environment To understand the four elements of the marketing mix</li> <li>To understand why it is important to have a strong brand</li> </ul>
<b>Big Test – Week 12 (11 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 22 (7 weeks)</i>	<i>Spring 02</i> <i>Weeks 23 (Spring 01) – 27 (5 weeks)</i>
<b>Content</b> <u>Introduction to Finance</u>	<b>Content</b> <u>Introduction to Human Resources</u>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To understand the difference between financial and non-financial aim businesses</li> <li>To understand and calculate the concept of revenue, costs and profit</li> <li>To be able to calculate and interpret ate a cash flow forecast</li> <li>To know the difference between short term and long term sources of finance</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To understand organisation Structures</li> <li>To understand different Payment systems and the benefits and drawback</li> <li>To understand the recruitment process</li> <li>To understand different ways a business can increase staff Motivation and its impact on the business</li> <li>To understand the different ways a business can communicate</li> </ul>
<b>Big Test – Week 26 (14 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 28 – 33 (6 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 34 – 35 (2 weeks)</i>
<b>Content</b> <u>Introduction to production</u>	<b>Content Business Plan</b> Exam techniques
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To understand the concept of quality assurance</li> <li>To understand the stock management system a business can use</li> <li>To understand the different production methods</li> <li>To understand how technology is used in business</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:
	<b>Summer 02 (after Big Test)</b> <b>Weeks 36 - 39 (4 weeks)</b>
	<b>Content</b> <u>Introduction to external environment</u>
	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To understand environmental impact on a business</li> <li>To understand how a business can be ethical and its impact on a business</li> <li>To understand how the government can impact a business</li> </ul> To understand the effects of the economy on a business
Big Test next year (will total 16 weeks of prep)	
<b>Big Test – Week 36 (10 weeks of prep)</b>	

## Year 9 Big Pictures

## Computer Science

Autumn 01 Weeks 1 – 7 (7 weeks)	Autumn 02 Weeks 8 – 15 (8 weeks)
<b>Content</b> Paper 2: Computational thinking, algorithms and programming.	<b>Content</b> Paper 2: Computational thinking, algorithms and programming.
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: 2.1 Algorithms 2.3 Producing robust programs 2.4 Computational logic	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test (WB 03 December 2018): 2.4 Computational logic 2.5 Translators and facilities of languages 2.6 Data representation
<b>Big Test – Week 13 (12 weeks of prep)</b>	
Spring 01 Weeks 16 - 21 (6 weeks)	Spring 02 Weeks 22 – 27 (6 weeks)
<b>Content</b> Paper 1: Computer Systems	<b>Content</b> Paper 1: Computer Systems
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: 1.1 Systems architecture 1.2 Memory 1.3 Storage	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test (WB 25 March 2019) 1.4 Wired and wireless networks 1.5 Network topologies, protocols and layers
<b>Big Test – Week 26 (12 weeks of prep)</b>	
Summer 01 Weeks 28 – 32 (5 weeks)	Summer 02 (upto Big Test) Weeks 33 - 39 (7 weeks)
<b>Content</b> Programming GLH Allocation	<b>Content</b> Paper 1: Computer Systems Paper 2: Computational thinking, algorithms and programming
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: 2.2 Programming techniques	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test (WB 01 July 2019)  <b>Paper 1:</b> 1.1 Systems architecture 1.2 Memory 1.3 Storage 1.4 Wired and wireless networks 1.5 Network topologies, protocols and layers  <b>Paper 2:</b> 2.1 Algorithms 2.2 Programming Techniques 2.3 Producing robust programs 2.4 Computational logic 2.5 Translators and facilities of languages 2.6 Data representation
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Design Technology

<i>Autumn 01</i> <i>Weeks 1 – 6 (6 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content</b> Sustainable Bird Box	<b>Content</b> Designing and communication
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ol style="list-style-type: none"> <li>1. Product analysis of example products.</li> <li>2. Life cycle of products.</li> <li>3. 6Rs</li> <li>4. Timber manufacturing processes (turning, routing)</li> <li>5. Timber finishes</li> <li>6. Adhesives, tools and equipment for timbers and joining materials.</li> <li>7. Joining and finishing materials.</li> <li>8. Evaluations.</li> </ol>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <p style="text-align: center;"><b>Key knowledge / Skills</b></p> <ol style="list-style-type: none"> <li>1. Rendering</li> <li>2. Crating</li> <li>3. Isometric</li> <li>4. Isometric circles</li> <li>5. Exploded Drawing</li> <li>6. Tecsoft isometric</li> <li>7. Orthographic</li> <li>8. Tecsoft orthographic</li> <li>9. Introduction to sketch up</li> <li>10. Develop an idea using sketch up</li> </ol>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 19 (4 weeks)</i>	<i>Spring 02</i> <i>Weeks 21 (Spring 01) – 26 (6 weeks)</i>
<b>Content</b> Audio Amplifier	<b>Content</b> Mechanisms Toy Plan
This is the knowledge, application and skills assessed by the Big Test: <ol style="list-style-type: none"> <li>11. Scales of production</li> <li>12. Flat pack products magazine promotion</li> <li>13. Tecsoft skills</li> <li>14. Using and setting up the laser cutter</li> <li>15. Achieving a high quality finish using spray paint and undercoat</li> <li>16. KD fittings</li> </ol>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ol style="list-style-type: none"> <li>1. Research mechanisms</li> <li>2. Ergonomics and anthropometric data.</li> <li>3. Electronics</li> <li>4. Flowcharts.</li> <li>5. Designing on techsoft and marking out the base.</li> <li>6. Creating the mechanism and assembling components.</li> <li>7. Achieving a high quality finish</li> </ol>
<b>Big Test – Week 25 (11 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 27 – 31 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 – 35 (3 weeks)</i>
<b>Content</b> Materials and their works properties	<b>Content</b> Materials and their working properties
<b>Assessment objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Metals and alloys - Ferrous low carbon steel and cast iron) and non-ferrous (aluminium and copper).</li> <li>• Polymers- Thermoplastic (acrylic and High Impact Polystyrene) and thermoset (melamine formaldehyde and urea formaldehyde).</li> <li>• Textiles - Natural (cotton and wool) and synthetic (elastane/lycra and polyester).</li> <li>• Composites - Medium Density Fibreboard (MDF) and Glass Reinforced Polymer (GRP).</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Papers and boards- Cellulose fibres derived from wood, rags or grasses.</li> <li>• Scientific vocabulary eg classification and types of and properties of a range of materials.</li> <li>• Physical properties of materials related to use eg knowledge applied when designing and making.</li> <li>• Timber- Hardwood (oak and beech) and softwood (pine and spruce).</li> </ul>
<b>Big Test – Week 35 (9 weeks of prep)</b>	

## Year 9 Big Pictures

### English Literature

<b>Autumn 01</b> <b>Weeks 1 – 7 (7 weeks)</b>	<b>Autumn 02</b> <b>Weeks 8 –13 (5 weeks)</b>
<b>Content: <i>An Inspector Calls</i>, J.B Priestley</b>	<b>Content: <i>An Inspector Calls</i>, J.B Priestley</b>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• To show an understanding of plot, character and themes (AO1).</li> <li>• To show an understanding of how class divide is presented and Priestley’s purpose/viewpoint (AO1).</li> <li>• To use appropriate quotations or references to support ideas, including stage directions and setting (AO1).</li> <li>• To begin to demonstrate an understanding of language, structure and form, focusing on the dramatic effect of the play (AO2).</li> <li>• To show an understanding of the context of Socialism and Capitalism (AO3).</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• To show an understanding of plot, character and themes (AO1).</li> <li>• To show an understanding of how class divide is presented and Priestley’s purpose/viewpoint (AO1).</li> <li>• To use appropriate quotations or references to support ideas, including stage directions and setting (AO1).</li> <li>• To begin to demonstrate an understanding of language, structure and form, focusing on the dramatic effect of the play (AO2).</li> <li>• To show an understanding of the context of Socialism and Capitalism (AO3).</li> </ul>
<b>Big Test – Week 12 (11 weeks of prep)</b>	
<b>Spring 01</b> <b>Weeks 14 (Autumn 02) – 21 (8 weeks)</b>	<b>Spring 02</b> <b>Weeks 22– 25 (4 weeks)</b>
<b>Content: Poetry Anthology from the ‘Power and Conflict’ Anthology</b>	<b>Content: Poetry Anthology from the ‘Power and Conflict’ Anthology</b>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• To show an understanding of the poems and the poet’s purpose/viewpoint (AO1).</li> <li>• To use appropriate quotations or references to support ideas (AO1).</li> <li>• To analyse the effect of particular language and structural features (AO2).</li> <li>• To use subject terminology in analysis (AO2)</li> <li>• To link the text to the context in which it was written (AO3).</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• To show an understanding of the poems and the poet’s purpose/viewpoint (AO1).</li> <li>• To use appropriate quotations or references to support ideas (AO1).</li> <li>• To analyse the effect of particular language and structural features (AO2).</li> <li>• To use subject terminology in analysis (AO2)</li> <li>• To link the text to the context in which it was written (AO3).</li> </ul>
<b>Big Test – Week 26 (14 weeks of prep)</b>	
<b>Summer 01</b> <b>Weeks 27 (Spring 02) – 32 (6 weeks)</b>	<b>Summer 02 (upto Big Test)</b> <b>Weeks 33 – 36 (3 weeks)</b>
<b>Content: 19<sup>th</sup> Century Text, Dr Jekyll and Mr Hyde, R.Stevenson</b>	<b>Content: 19<sup>th</sup> Century Text, Dr Jekyll and Mr Hyde, R.Stevenson</b>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• To show an understanding of plot, character and themes (AO1).</li> <li>• To show an understanding of how society is presented and Stevenson’s purpose/viewpoint (AO1).</li> <li>• To use appropriate quotations or references to support ideas (AO1).</li> <li>• To begin to demonstrate an understanding of language, structure and form (AO2).</li> <li>• To show an understanding of the context of the 19<sup>th</sup> Century (AO3).</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• To show an understanding of plot, character and themes (AO1).</li> <li>• To show an understanding of how society is presented and Stevenson’s purpose/viewpoint (AO1).</li> <li>• To use appropriate quotations or references to support ideas (AO1).</li> <li>• To begin to demonstrate an understanding of language, structure and form (AO2).</li> <li>• To show an understanding of the context of the 19<sup>th</sup> Century (AO3).</li> </ul>
<b>Big Test – Week 36 (10 weeks of prep)</b>	

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<b>Summer 02 (after Big Test)</b> <b>Weeks 38 - 39 (2 weeks)</b>
<b>Content: 19<sup>th</sup> Century Text, Dr Jekyll and Mr Hyde, R.Stevenson</b>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"><li>• To show an understanding of plot, character and themes (AO1).</li><li>• To show an understanding of how society is presented and Stevenson's purpose/viewpoint (AO1).</li><li>• To use appropriate quotations or references to support ideas (AO1).</li><li>• To begin to demonstrate an understanding of language, structure and form (AO2).</li><li>• To show an understanding of the context of the 19<sup>th</sup> Century (AO3).</li></ul>
Big Test next year (will total 16 weeks of prep)

## Year 9 Big Pictures

### Film Studies

Autumn 01 Weeks 1 – 7 (7 weeks)	Autumn 02 Weeks 8 – 15 (8 weeks)
<b>Content</b> Contemporary UK film (produced after 2010)	<b>Content</b> Contemporary UK film (produced after 2010)
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Demonstrate understanding of historical, political, social, cultural, technological and institutional context of the film.</li> <li>• Demonstrate knowledge and understanding of elements of film.</li> <li>• Apply knowledge and understanding of elements of film, Including to analyse films.</li> <li>• Apply knowledge and understanding of elements of film to the production of film or screenplay.</li> <li>• Demonstrate understanding of the aesthetic qualities of the film.</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Demonstrate understanding of historical, political, social, cultural, technological and institutional context of the film.</li> <li>• Demonstrate knowledge and understanding of elements of film.</li> <li>• Apply knowledge and understanding of elements of film, Including to analyse films.</li> <li>• Apply knowledge and understanding of elements of film to the production of film or screenplay.</li> <li>• Demonstrate understanding of the aesthetic qualities of the film.</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
Spring 01 Weeks 16 - 21 (6 weeks)	Spring 02 Weeks 22 – 27 (6 weeks)
<b>Content</b> Global English language film (produced outside US)	<b>Content</b> Global English language film (produced outside US)
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Demonstrate understanding of historical, political, social, cultural, technological and institutional context of the film.</li> <li>• Demonstrate knowledge and understanding of elements of film.</li> <li>• Apply knowledge and understanding of elements of film, Including to analyse films.</li> <li>• Apply knowledge and understanding of elements of film to the production of film or screenplay.</li> <li>• Demonstrate understanding of the narrative of the film.</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Demonstrate understanding of historical, political, social, cultural, technological and institutional context of the film.</li> <li>• Demonstrate knowledge and understanding of elements of film.</li> <li>• Apply knowledge and understanding of elements of film, Including to analyse films.</li> <li>• Apply knowledge and understanding of elements of film to the production of film or screenplay.</li> <li>• Demonstrate understanding of the narrative of the film.</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<p><b>Content</b> Global non-English language film</p>	<p><b>Content</b> Global non-English language film</p>
<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Demonstrate understanding of historical, political, social, cultural, technological and institutional context of the film.</li> <li>• Demonstrate knowledge and understanding of elements of film.</li> <li>• Apply knowledge and understanding of elements of film, Including to analyse films.</li> <li>• Apply knowledge and understanding of elements of film to the production of film or screenplay.</li> <li>• Demonstrate understanding of the representation of the film.</li> </ul>	<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Demonstrate understanding of historical, political, social, cultural, technological and institutional context of the film.</li> <li>• Demonstrate knowledge and understanding of elements of film.</li> <li>• Apply knowledge and understanding of elements of film, Including to analyse films.</li> <li>• Apply knowledge and understanding of elements of film to the production of film or screenplay.</li> <li>• Demonstrate understanding of the representation of the film.</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	



## Year 9 Big Pictures

### Geography

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<p><b>Content</b></p> <p><u>21<sup>st</sup> Century Challenges</u></p> <ul style="list-style-type: none"> <li>Geography of Disease - location, impact on people and why it spreads</li> <li>Climate change - what it is, causes, impacts and solutions</li> <li>Migration - what it is, voluntary and forced migration with examples</li> </ul>	<p><b>Content</b></p> <p><u>21<sup>st</sup> Century Challenges</u></p> <ul style="list-style-type: none"> <li>Plastic Pollution - causes, impacts and solutions</li> <li>Oceans on the Edge – formation, biodiversity and overfishing</li> </ul> <p><u>Mapping Skills</u></p> <ul style="list-style-type: none"> <li>Map projections</li> <li>OS maps – scale, contours &amp; grid references</li> <li>Enquiry based practice – Mapping Festivals</li> </ul> <p style="text-align: center;"><b>+ Big Test &amp; Revision</b></p>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<p><b>Content</b></p> <p><u>UK Landscapes (6weeks)</u></p> <ul style="list-style-type: none"> <li>Important human landscapes</li> <li>UK Population &amp; Economy</li> <li>Important physical landscapes</li> <li>Coastal Landforms</li> <li>Costs vs benefits of management</li> <li>Coastal region example – human &amp; physical opportunities &amp; challenges</li> <li>River Landforms</li> <li>Costs vs benefits of management</li> <li>River management scheme – human &amp; physical opportunities &amp; challenges</li> </ul>	<p><b>Content</b></p> <p><u>Extreme Environments</u></p> <ul style="list-style-type: none"> <li>Tropical Rainforest – location, characteristics, adaptations, opportunities and challenges</li> <li>Hot Desert – Sahara – location, characteristics, adaptations, opportunities and challenges</li> <li>Cold Environments – Svalbard – location, characteristics, adaptations, opportunities and challenges</li> </ul> <p style="text-align: center;"><b>+ BIG TEST &amp; Revision</b></p>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (up to Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<p style="text-align: center;"><u>GCSE Resource Management</u></p> <ul style="list-style-type: none"> <li>Global distribution of resources</li> <li>Food in the UK</li> <li>Water in the UK</li> <li>Energy in the UK</li> </ul> <p><b>Food</b></p> <ul style="list-style-type: none"> <li>Global demand for food</li> <li>Food insecurity</li> <li>Increasing food production</li> <li>Sustainable food supply</li> </ul>	<p style="text-align: center;"><u>GCSE Resource Management</u></p> <p><b>Water</b></p> <ul style="list-style-type: none"> <li>Global demand for water</li> <li>Water insecurity</li> <li>Water Surplus</li> <li>Increasing water supply</li> <li>Sustainable water supply</li> </ul> <p><b>Energy</b></p> <ul style="list-style-type: none"> <li>Global demand for energy</li> <li>Fossil Fuels &amp; Renewable Energy</li> <li>Energy insecurity</li> <li>Increasing energy supply</li> <li>Sustainable energy supply</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Hair & Beauty

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<p><b>Content:</b> Unit 201 – Exploring the world of hair and beauty</p> <p><u>Introduction to</u> LO 1 - Understand key features of the hair and beauty sector</p> <ul style="list-style-type: none"> <li>• TOPIC 1.1: The industries within the sector</li> <li>• TOPIC 1.2: Key features of hair and beauty careers</li> <li>• TOPIC 1.3: Business and industry links</li> </ul>	<p><b>Content:</b> Unit 201 – Exploring the world of hair and beauty</p> <p><u>Continue with LO 1</u> - Understand key features of the hair and beauty sector</p> <ul style="list-style-type: none"> <li>• TOPIC 1.3: Business and industry link</li> </ul> <p><u>Introduction to LO 2</u> - Understand the development of the hair and beauty sector</p> <ul style="list-style-type: none"> <li>• TOPIC 2.2: Hair and beauty in today's society</li> </ul>
<p><b>Assessment Objectives</b> <b><u>This is the knowledge, application and skills assessed by the Big Test:</u></b></p> <p><b>1.1</b> Learners will understand the industries, including:</p> <ul style="list-style-type: none"> <li>• Hair – Hairdressing and Barbering</li> <li>• Beauty – Beauty therapy, Nail technology, Spa therapy and Media make-up.</li> </ul> <p><b>1.2</b> Learners will understand the key features of hair and beauty careers, including:</p> <ul style="list-style-type: none"> <li>• Hairdresser /beauty therapist / spa therapist / media/make-up artist / cosmetic consultant / trichologist / barber / educator / teacher / receptionist.</li> </ul>	<p><b>Assessment Objectives</b> <b><u>This is the knowledge, application and skills assessed by the Big Test:</u></b></p> <p><b>1.3</b> Learners will understand how each of the following trades and businesses are linked to the hair and beauty sector, including:</p> <ul style="list-style-type: none"> <li>• manufacturers / wholesalers/ trichologist / retail / media / leisure industries</li> </ul> <p>Learners will understand how each of the following are linked to the hair and beauty sector in terms of applicable, transferrable skills, including:</p> <ul style="list-style-type: none"> <li>• leisure industries eg entertainment, recreation, sports, and tourism / cosmetic research and development and para-medical services eg laser treatments, cosmetic injections / health and well-being industries / journalism</li> </ul> <p><b>2.2</b> Learners will understand key developments and technological advancements and understand how they have shaped today's hair and beauty sector, including:</p> <ul style="list-style-type: none"> <li>• Technological advancements: products / equipment / media</li> <li>• Changes to the economy: effects of recession on hair and beauty businesses / gross domestic product (GDP) / product pricing</li> <li>• Social factors: Social diversity, culture and celebrity have impacted the sector by increasing demand for each of the following: products / services / beauty / equipment</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<p><b>Content:</b> Unit 202 – Science of Hair and Beauty</p> <p><u>Introduction to:</u> LO1 Understand chemistry of cosmetics and consider their uses within hair and beauty products:</p> <ul style="list-style-type: none"> <li>• TOPIC 1.1: The effects of acids and alkalis on hair and skin</li> </ul>	<p><b>Content:</b> Unit 202 – Science of Hair and Beauty</p> <p>Continue with: LO1 Understand chemistry of cosmetics and consider their uses within hair and beauty products:</p> <ul style="list-style-type: none"> <li>• TOPIC 1.2: The scientific principles of ingredients in hair and beauty products</li> </ul>
<p><b>Assessment Objectives</b> <b><u>This is the knowledge, application and skills assessed by the Big Test:</u></b></p> <p><b>1.1</b> Learners will understand the following classifications:</p> <ul style="list-style-type: none"> <li>• Acids</li> <li>• Alkalis</li> <li>• pH balanced with hair/skin: methods of testing pH values of solutions</li> <li>• universal indicator</li> <li>• litmus paper</li> <li>• The typical pH value of the following products Skin products / Nail products / Hair products</li> <li>• The effects of acids and alkalis: hair / skin</li> </ul>	<p><b>Assessment Objectives</b> <b><u>This is the knowledge, application and skills assessed by the Big Test:</u></b></p> <p><b>1.2</b> Learners will understand the scientific principles relevant to each of the following products:</p> <ul style="list-style-type: none"> <li>• shampoo/detergents</li> <li>• hair conditioners</li> <li>• skin sun protection creams</li> <li>• skin cleansers</li> <li>• exfoliators</li> <li>• cuticle remover</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Summer 01 Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test) Weeks 33 - 39 (7 weeks)</i>
<p><b>Content:</b> Unit 202 – Science of Hair and Beauty</p> <p><b>Continue with:</b> LO1 Understand chemistry of cosmetics and consider their uses within hair and beauty products:</p> <ul style="list-style-type: none"> <li>• TOPIC 1.3: Ingredients in hair and beauty products</li> <li>• TOPIC 1.4: Ethical consideration for testing cosmetics</li> </ul>	<p><b>Content:</b> Unit 202 – Science of Hair and Beauty</p> <p><b>Introduce:</b> LO2 Understand biology related to the hair and beauty sector</p> <ul style="list-style-type: none"> <li>• TOPIC 2.1 Anatomy and physiology terminology of hair, skin and nails:</li> </ul>
<p><b>Assessment Objectives</b> <b><u>This is the knowledge, application and skills assessed by the Big Test:</u></b></p> <p>1.3 Learners will understand the main ingredients, properties and functions of substances used in hair and beauty products:</p> <ul style="list-style-type: none"> <li>• Parabens / Mineral oils / Emollient / Oxidising agents / Stabilisers / Antiseptics / Humectants / UV filters / Pigments / Emulsifiers / Exfoliators / Astringents / Hydrating / Hypoallergenic / Non-comedogenic / Soothing / Regenerating / Anti-oxidant / Stimulating / Dihydroxyacetone (DHA) / Depilatory / Paraphenylenediamine</li> </ul> <p>Learners will understand the possible causes and signs of allergic reactions.</p> <ul style="list-style-type: none"> <li>• Ingredients which commonly cause allergic reactions/skin sensitivities in hair and beauty products: para dyes / detergents / oils / methylisothiazolinone</li> <li>• Common signs of allergic reaction/skin sensitivities: dermatitis / anaphylactic shock</li> </ul> <p>1.4 Learners will understand why cosmetic products are tested prior to being made available:</p> <ul style="list-style-type: none"> <li>• For safety</li> <li>• To fit its description, be fit for purpose and satisfactory quality</li> </ul> <p>Learners will understand that it is illegal to test cosmetics on animals due to legislation:</p> <ul style="list-style-type: none"> <li>• People for the Ethical Treatment of Animals (PETA)</li> <li>• Royal Society for the Prevention of Cruelty to Animals (RSPCA)</li> </ul> <p>Learners will understand that a complete ban on the sale of cosmetics developed through animal testing, including</p> <ul style="list-style-type: none"> <li>• use of humans</li> <li>• scientific research</li> </ul>	<p><b>Assessment Objectives</b> <b><u>This is the knowledge, application and skills assessed by the Big Test:</u></b></p> <p>Topic 2.1 Learners will understand the location and main function of hair structures:</p> <ul style="list-style-type: none"> <li>• hair follicle / inner and outer root sheath / hair shaft / cuticle / cortex / medulla</li> </ul> <p>Learners will understand the location and main function of nail structures where applicable:</p> <ul style="list-style-type: none"> <li>• nail plate / nail bed / nail cuticle / matrix / lunula / hyponychium / free edge / nerve endings</li> </ul> <p>Learners will understand the location and main function of the epidermis structures:</p> <ul style="list-style-type: none"> <li>• basal cell layer / prickle cell layer / granular layer/ clear layer / horny layer</li> </ul> <p>Learners will understand the location and main function of the dermis structures:</p> <ul style="list-style-type: none"> <li>• collagen / subcutaneous layer / elastin / sweat glands / sensory nerve endings / sebaceous gland / arrector pili muscle / blood vessels / dermal papilla</li> </ul> <p>Learners will understand the location and main function of hypodermis structures:</p> <ul style="list-style-type: none"> <li>• fat cells / loose connective tissue</li> </ul> <p>Learners will know the functions of the hair, skin and nails:</p> <ul style="list-style-type: none"> <li>• Absorption of moisture / Sensation reacts to touch / Elimination of waste products / Secretion of oil and water / Protection against harmful bacteria, UV rays / Regulation of heat / Produces vitamin D</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Health & Social Care

Autumn 01 Weeks 1 – 7 (7 weeks)	Autumn 02 Weeks 8 – 15 (8 weeks)
<b>Content</b> What is health and Social Care? Effective Communication <ul style="list-style-type: none"> <li>- Verbal</li> <li>- Non- verbal</li> </ul>	<b>Content</b> Diet and Nutrition <ul style="list-style-type: none"> <li>- Balanced</li> <li>- Unbalanced</li> <li>- Recommended Daily Intake</li> </ul>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:  <u>Assessment: Communication Mini Test</u>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:  <u>Assessment: Diet and Nutrition Big Test</u>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
Spring 01 Weeks 16 - 21 (6 weeks)	Spring 02 Weeks 22 – 27 (6 weeks)
<b>Content</b> Diets Around the World  Individual Diet Project	<b>Content</b> Learning Aim A Component 1 <ul style="list-style-type: none"> <li>- Life stages</li> <li>- Growth and Development</li> </ul>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:  <u>Assessment: Diet Project</u>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:  <u>Assessment: Life stages Big Test</u>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
Summer 01 Weeks 28 – 32 (5 weeks)	Summer 02 (upto Big Test) Weeks 33 - 39 (7 weeks)
<b>Content</b> Learning Aim A Component 1	<b>Content</b> Learning Aim A Component 1
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>- Physical development</li> <li>- Intellectual development</li> <li>- Emotional development</li> <li>- Social development</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:  <u>Assessment: Component 1 Coursework</u>  <i>P1, P2, M1, D1</i>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### History

<b>Autumn 01</b> <b>Weeks 1 – 7 (7 weeks)</b>	<b>Autumn 02</b> <b>Weeks 8 – 15 (8 weeks)</b>
<b>Content</b> <b>WW1</b> Causes of WW1 Events of WW1 Homefront End of WW1	<b>Content</b> <b>WW2</b> The rise of dictators Causes of WW2 Events of WW2 Appeasement
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To use GCSE explaining and source routine skills consistently</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To use GCSE explaining and source routine skills consistently</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<b>Spring 01</b> <b>Weeks 16 - 22 (7 weeks)</b>	<b>Spring 02</b> <b>Weeks 23 (Spring 01) – 27 (5 weeks)</b>
<b>Content</b> <b>Britain: Health and the people:c1000 to the present day</b> <b>Part 1: Medicine stands still</b> Medieval disease treatment and surgery The Black Death <b>Part 2: The beginnings of change</b> The impact of the Renaissance on Britain	<b>Content</b> <b>Part 2: The beginnings of change</b> Dealing with disease Prevention of disease <b>Part 3: A revolution in medicine</b> The development of Germ Theory and a revolution in surgery Improvements in public health
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To use GCSE explaining and source routine skills consistently</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To use GCSE explaining and source routine skills consistently</li> </ul>
<b>Big Test – Week 26 (13 weeks of prep)</b>	
<b>Summer 01</b> <b>Weeks 28 – 33 (6 weeks)</b>	<b>Summer 02 (upto Big Test)</b> <b>Weeks 34 – 35 (2 weeks)</b>
<b>Content</b> <b>Part 4: Modern medicine</b> Modern treatment of disease Modern public health	<b>Content</b> <b>Revision - Medicine</b>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To use GCSE explaining and source routine skills consistently</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:
<b>Big Test – Week 37 (11 weeks of prep)</b>	
	<b>Summer 02 (after Big Test) Weeks 36 - 39 (4 weeks)</b>
	<b>Content</b> <b>Germany 1890 – 1945: Democracy and dictatorship</b> Impact of WW1 and instability Weimar – Stresemann era
	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>To use GCSE explaining and source routine skills consistently</li> </ul>
	Big Test next year (will total 16 weeks of prep)

## Year 9 Big Pictures

### Hospitality & Catering

Autumn 01 Weeks 1 – 7 (7 weeks)	Autumn 02 Weeks 8 – 15 (8 weeks)
Content – Unit 1 - Overview of the Hospitality and Catering Sector	Content – Unit 2 – Operation of Hospitality and Catering services
<p><b>Assessment Objectives</b>  <b>LO1: Understand the Environment in which H+C providers operate</b>  <b>LO3: Be able to cook dishes (developing and improving skills learnt at KS3)</b></p> <p><u>Key Knowledge</u></p> <ul style="list-style-type: none"> <li>Understand different types of catering provision.</li> <li>Commercial and Non Commercial/Residential and Non-Residential.</li> <li>Job roles and requirements.</li> <li>Factors affecting success of businesses.</li> </ul> <p><u>Practical work</u></p> <ul style="list-style-type: none"> <li>Rough puff pastry, sausage rolls, thai curry, upside down sponge, tacos, meringue nests.</li> <li>Key Skills – knife work, using hob, baking, garnishing adding flavour and adapting a given recipe, pastry, electrical equipment</li> </ul>	<p><b>Assessment Objectives</b>  <b>LO2: Understand how H+C services operate</b>  <b>LO3: Be able to cook dishes (developing and improving skills learnt at KS3)</b></p> <p><u>Key Knowledge</u></p> <ul style="list-style-type: none"> <li>Understand ‘front of house’ and ‘back of house’.</li> <li>Kitchen layout and work flow.</li> <li>Managing stock using different systems.</li> <li>Meeting customer requirements.</li> </ul> <p><u>Practical work</u></p> <ul style="list-style-type: none"> <li>Homemade burgers w/chips, chicken kiev w/vegetables, red lentil dhal w/naan bread, carrot cake.</li> <li>Key Skills – binding using egg, handling high risk foods, meat prep, use of spices, bread dough, cake making.</li> </ul>
<b>Big Test</b>	
Spring 01 Weeks 16 – 22 (6weeks)	Spring 02 Weeks 23 – 22 (6 weeks)
Content – Develop Understanding of Health and Safety	Content – Proposing H + C Provision to Meet a Specific Need
<p><b>Assessment Objectives</b>  <b>LO3: Understand how H+C provision meets health and safety requirements.</b>  <b>LO4: Understand the links between food and ill health.</b>  <b>LO3: Be able to cook dishes (developing and improving skills learnt at KS3)</b></p> <p><u>Key Knowledge</u></p> <ul style="list-style-type: none"> <li>Personal safety laws.</li> <li>Employer/Employee responsibility.</li> <li>Ill health caused by food safety/hygiene.</li> <li>Bacteria and contamination.</li> </ul> <p><u>Practical work</u></p> <ul style="list-style-type: none"> <li>Chow mein noodles, shakshuka, spaghetti carbonara, swiss roll.</li> <li>Key Skills – vegetable prep, sauce making, whisking method, pasta and noodle cooking.</li> </ul>	<p><b>Assessment Objectives</b>  <b>LO5: Understanding the differences between H + C provision.</b>  <b>LO3: Be able to cook dishes (developing and improving skills learnt at KS3)</b></p> <p><u>Key knowledge</u></p> <ul style="list-style-type: none"> <li>Advantages and Disadvantages of each type.</li> <li>USPs and industry trends.</li> <li>Target customers – specific needs.</li> </ul> <p><u>Practical work</u></p> <ul style="list-style-type: none"> <li>Mezze platter w/hummous, babaganoush and flatbreads, brownies, veggie wellington, chicken salad.</li> <li>Key Skills – using stick blender, use of grill, melting method, puff pastry, marinading, adapting salad recipe.</li> </ul>
<b>Big Test – Week 25 (11 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Summer 01</i> <i>Weeks 27 – 31 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 – 35 (3 weeks)</i>
<b>Content – Mini assessment: plan cook and present two dishes for a specific dietary need</b>	<b>Content – Re-cap of knowledge (exam preparation)</b>
<b>Assessment Objectives</b> <b>Be able to plan and test recipes for a particular market.</b> <b>LO3: Be able to cook dishes</b>  <u>Key knowledge</u> <ul style="list-style-type: none"> <li>• Analysing the task.</li> <li>• Target market research.</li> <li>• Finding recipes – making changes.</li> <li>• Evaluating and testing.</li> </ul> Practical Work Own choice of high skilled dishes.	<b>Assessment Objectives</b> <b>To revise all topics covered throughout the year</b>  <u>Key knowledge</u> <ul style="list-style-type: none"> <li>• H+C environment</li> <li>• H + C operations</li> <li>• Health and Safety</li> <li>• Food and ill health.</li> <li>• Meeting needs.</li> </ul>
<b>Big Test – Week 35 (9 weeks of prep)</b>	
<i>Summer 02 (after Big Test)</i> <i>Weeks 36 - 39 (4 weeks)</i>	
<b>Content</b>	
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:	
Big Test next year (will total 16 weeks of prep)	



## Year 9 Big Pictures

### ICT

<b>Autumn 01</b> <i>Weeks 1 – 7 (7 weeks)</i>	<b>Autumn 02</b> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content</b> Creating Digital Graphics: Foundation Learning	<b>Content</b> R082: Creating Digital Graphics (Time chaser Scenario)
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Mini-Test: Mock R082 LO3 Assignment	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test 03 December 2018: Completion of R082 (LO1/LO2/LO3/LO4)
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<b>Spring 01</b> <i>Weeks 16 - 21 (6 weeks)</i>	<b>Spring 02</b> <i>Weeks 22 – 27 (6 weeks)</i>
<b>Content</b> R082: Creating Digital Graphics (Time chaser Scenario)	<b>Content</b> R082: Creating Digital Graphics (Time chaser Scenario)
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Mini-Test: Completion of R082 (LO1/LO2/LO3/LO4)	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test 25 March 2019: Completion of R082 (LO1/LO2/LO3/LO4)
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<b>Summer 01</b> <i>Weeks 28 – 32 (5 weeks)</i>	<b>Summer 02 (upto Big Test)</b> <i>Weeks 33 - 39 (7 weeks)</i>
<b>Content</b> Creating a Multipage Website Foundation Learning	<b>Content</b> R085: Creating a Multipage Website (Local Attractions Scenario)
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Mini-Test: Mock R085 LO3 Assignment (Single Webpage)	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test 01 July 2019: Completion of R085 (LO1)
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Mandarin

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<u>Holiday – weather and countries</u> <ul style="list-style-type: none"> <li>Learning weather forecast</li> <li>Learning time frame –future tense</li> <li>Learning radicals – rain, sun and steam radicals.</li> <li>Learning about nationalities</li> <li>Verb- adjectives</li> <li>Chinese grammar – the use of ‘ Which’</li> <li>Countries and languages</li> <li>Nationality</li> <li>Chinese culture – moon festival</li> <li>Key skills: speaking, listening, reading and writing</li> </ul>	<u>Holiday - activities and tenses</u> <ul style="list-style-type: none"> <li>Learning different places</li> <li>Chinese grammar – the use of ‘ Where’</li> <li>Holiday activities</li> <li>Learning radicals – water, mountain, soil and wood radicals.</li> <li>Holiday activities</li> <li>transport</li> <li>Verb objects</li> <li>Learning time frame –past tense</li> <li>Chinese grammar – two verbs together and the use of ‘ how’</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<u>Content: all about me</u> <ul style="list-style-type: none"> <li>Learning descriptive words</li> <li>Verb – adjectives</li> <li>Chinese measure words – most common measure words</li> <li>Learning about Chinese festivals - focus on the Chinese New year</li> <li>bedroom</li> <li>furniture</li> <li>Chinese measure words – flats objects and chairs</li> <li>Learning time frame – current tense</li> <li>Key skills: speaking, listening, reading and writing</li> </ul>	<u>Daily routine, clothes and tenses</u> <ul style="list-style-type: none"> <li>Clothes and colours</li> <li>Daily routine</li> <li>Describing my school</li> <li>teenagers daily routines and clothes in China</li> <li>Learning radicals – silk, clothes and grass radicals.</li> <li>Time</li> <li>Characters with more than one meaning</li> <li>Key skills: speaking, listening, reading and writing</li> </ul>
<b>Big Test – Week 25 (11 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<u>Where do you live</u> <ul style="list-style-type: none"> <li>Describing my town</li> <li>Directions</li> <li>My places</li> <li>Asking for help</li> <li>Weekends plan</li> <li>Learning time frame – future tense</li> <li>Describing my house</li> <li>Key skills: speaking, listening, reading and writing</li> <li>Learning radicals – silk, clothes and grass radicals.</li> </ul>	<u>Jobs and shopping</u> <ul style="list-style-type: none"> <li>Jobs and future plan</li> <li>Working places</li> <li>Learning time frame – future tense</li> <li>Chinese culture – Chinese cooking</li> <li>At the supermarket</li> <li>Chinese currency</li> <li>Chinese grammar –the use of ‘ also’ , ‘although’ ‘ most’ and ‘extremely’</li> <li>At the department store</li> <li>Shopping online</li> <li>Key skills: speaking, listening, reading and writing</li> </ul>
<b>Big Test – Week 36 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Maths – Access to Foundation

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content</b> Unit 1: Place value, ordering and rounding Unit 2: Addition and subtraction	<b>Content</b> Unit 3: Multiplication and division
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Read and write numbers</li> <li>• Recognise place value</li> <li>• Order numbers</li> <li>• Round numbers to powers of 10</li> <li>• Recognise and complete number sequences</li> <li>• Add and subtract numbers</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Know times tables up to 12 x 12 by heart</li> <li>• Find factors and multiples of numbers</li> <li>• Recognise square and prime numbers</li> <li>• Multiply and divide numbers</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<b>Content</b> Unit 4: Fractions, decimals and percentages	<b>Content</b> Unit 4 (continued): Fractions, decimals and percentages
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Compare and order fractions</li> <li>• Find equivalent fractions</li> <li>• Find fractions of amounts</li> <li>• Convert decimals to fractions (using place value)</li> <li>• Convert percentages to fractions</li> <li>•</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Order decimals</li> <li>• Order fractions, decimals and percentages</li> <li>• Find percentages of amounts</li> <li>• Convert improper fractions to mixed numbers</li> <li>• Add and subtract simple fractions</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<b>Content</b> Unit 5: Measures	<b>Content</b> Unit 5 (continued): Measures
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Measure, order and compare quantities including weight, length, capacity and time</li> <li>• Find areas by counting squares</li> <li>• Convert times from the 12 hour to the 24 hour clock</li> <li>• Convert times from the analogue to the digital clock</li> <li>• Solve problems with time</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Find the perimeter of shapes by measuring</li> <li>• Convert units of weight, length and capacity</li> <li>• Find the area and perimeter of rectangles</li> <li>• Measure, compare, draw and order angles</li> <li>• Illustrate triangles and their properties</li> <li>• Find the volume of cuboids</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Maths – Foundation

Autumn 01 Weeks 1 – 7 (7 weeks)	Autumn 02 Weeks 8 – 15 (8 weeks)
<b>Content</b> Unit 1: Numbers, powers, decimals, HCF&LCM, Roots and Rounding	<b>Content</b> Unit 2: Expressions, substituting into simple formulae, expanding and factorising
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Integers and place value (order, add, subtract, multiply, divide, BIDMAS, round, estimation &amp; multiply/divide by powers of 10)</li> <li>• Decimals (order, add, subtract, multiply, divide &amp; round)</li> <li>• Indices, powers and roots (square/cube numbers, roots, index form, powers of 10, negative powers, BIDMAS &amp; multiply/divide numbers in index form)</li> <li>• Factors, multiples and primes (types of number, factors/multiples of numbers, prime numbers, prime factor decomposition &amp; HCF and LCM)</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Algebra: the basics (Write expressions, algebraic terminology, collect like terms, multiply expressions, simplify by cancelling &amp; use index notation and laws)</li> <li>• Expanding and factorising single brackets (Multiply single term over bracket, write and simplify expressions with squares/cubes, expand and simplify, show algebraic equivalence &amp; factorise into single brackets)</li> <li>• Expressions and substitution into formulae (Write expressions and solve problems, substitute into expressions and formulae &amp; derive formulae)</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
Spring 01 Weeks 16 - 21 (6 weeks)	Spring 02 Weeks 22 – 27 (6 weeks)
<b>Content</b> Unit 3: Drawing and interpreting graphs, tables and charts	<b>Content</b> Unit 4: Fractions and Percentages
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Tables (Design and use data collection sheets, classify data, construct tables for time-series data, time notation, use timetables, design and use two-way tables, interpret frequency tables &amp; identify the mode/modal class for a frequency table)</li> <li>• Charts and graphs (Plot coordinates, produce/interpret pictograms, bar charts (composite, dual, line), line graphs and stem-and-leaf &amp; identify the mode/range from these charts/graphs)</li> <li>• Pie charts (Draw circles and arcs, measure and draw angles, construct and interpret pie charts and find the mode/total frequency from a pie chart)</li> <li>• Scatter graphs (Draw and interpret scatter graphs, identify outliers, draw and use the line of best fit, identify types of correlation, interpret the relationship between variables and the gradient of the line of best fit)</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Fractions (Use diagrams, simplify, compare, order and find equivalent fractions, convert between mixed numbers and improper fractions, add and subtract fractions &amp; multiply and divide fractions)</li> <li>• Fractions, decimals and percentages (convert between fractions and decimals, compare and order fractions, decimals and integers, convert percentages to fractions, express a given number as a percentage of another, convert between fractions, decimals and percentages &amp; order fractions, decimals and percentages)</li> <li>• Percentages (Find percentages of amounts with/without a calculator, calculate percentage increase/decrease, increase and decrease amounts by percentages (inc. simple interest) &amp; use decimal multipliers)</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<p><b>Content</b> Unit 5: Equations, inequalities and sequences</p>	<p><b>Content</b> Unit 6: Angles, polygons and parallel lines</p>
<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Equations (Write expressions and set up simple equations, use function machines, solve linear equations including those with unknowns on both sides and with brackets, rearrange simple equations, substitute into formulae, find approximate solutions using a graph, solve angle/perimeter problems using algebra &amp; write equations to solve worded problems)</li> <li>• Inequalities (Show inequalities on number lines, solve inequalities &amp; use inequalities to specific error intervals due to truncation or rounding)</li> <li>• Sequences (Recognise common sequences including Fibonacci, generate sequences, find the position to term (<math>n^{\text{th}}</math>) and term-to-term rules for sequences, generate and distinguish between arithmetic and geometric sequences &amp; use the <math>n^{\text{th}}</math> term to generate quadratic sequences)</li> </ul>	<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Properties of shapes, parallel lines and angle facts (Estimate, identify types of, measure and draw angles, identify parallel and perpendicular lines, understand the properties/types of quadrilaterals and different triangles, find missing angles at a point, on a straight line, vertically opposite to another, in triangles, in quadrilaterals and in parallel lines giving reasons &amp; derive the proof for sum of angles in a triangle and for the exterior angle of a triangle equalling the sum of the opposite interior angles)</li> <li>• Interior and exterior angles of polygons (Identify polygons, understand regular/irregular, calculate and use the sum of interior and/or exterior angles in a polygon, identify congruent shapes &amp; understand why some shapes tessellate while others do not)</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Maths – Higher

Autumn 01 Weeks 1 – 7 (7 weeks)	Autumn 02 Weeks 8 – 15 (8 weeks)
<b>Content</b> Unit 1: Powers, decimals, HCF and LCM, positive and negative, roots, rounding, reciprocals, standard form, indices and surds	<b>Content</b> Unit 2: Expressions, substituting into simple formulae, expanding and factorising, equations, sequences and inequalities, simple proof
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Calculations, checking and rounding (Add, subtract, multiply and divide decimals, use the product rule, round numbers (inc. to decimal places and significant figures and estimate answers to calculations)</li> <li>• Indices, roots, reciprocals and hierarchy of operations (Index notation, squares, cubes, roots, fractional and negative indices, reciprocals, index laws, BIDMAS and calculator use)</li> <li>• Factors, multiples and primes (Identify factors, multiples and primes, prime factor decomposition and finding LCM and HCF)</li> <li>• Standard form and surds (Convert numbers into standard form and vice versa, add, subtract, multiply and divide in standard form (inc. using a calculator), surd notation and simplify surd expressions involving squares)</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Algebra – the basics (Algebraic notation and terminology, write expressions, collect like terms, substitute into expressions and formulae, simplify expressions, index laws, expand single and double brackets, factorise into single and double brackets and use the difference of two squares)</li> <li>• Setting up, rearranging and solving equations (Set up and solve linear equations, derive formulae and substitute into them, change the subject of a formula, demonstrate simple algebraic proofs and use iteration to find approximate solutions to equations.)</li> <li>• Sequences (Recognise simple sequences, generate sequences, find term-to-term rules, identify when terms are not in a sequence, find and use the nth term of an arithmetic sequence, find and use the nth term of a quadratic sequence, geometric sequences and use the terminology finite / infinite / ascending / descending)</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
Spring 01 Weeks 16 - 21 (6 weeks)	Spring 02 Weeks 22 – 27 (6 weeks)
<b>Content</b> Unit 3: Averages and range, collecting data, representing data	<b>Content</b> Unit 4: Fractions, percentages, ratio and proportion
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Averages and range (Complete and interpret two-way tables, calculate mean, range, median and mode (inc. from frequency tables), compare averages, complete and interpret stem-and-leaf diagrams, construct and interpret grouped frequency tables and use them to estimate the mean and find the modal class and the interval containing the median.</li> <li>• Representing and interpreting data (Produce and interpret various bar charts, pie charts, frequency polygons, line graphs, time-series graphs and histograms with equal class intervals)</li> <li>• Scatter graphs (Draw and interpret scatter graphs, draw and use lines of best fit, identify outliers and identify types of correlation)</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>• Fractions (Write equivalent fractions, compare and order fractions, simplify fractions, find fractions of amounts, convert fractions to decimals, convert between mixed numbers and improper fractions, add, subtract, multiply and divide fractions, using PFD determine if a fraction can be written as a terminating or recurring decimals, convert recurring decimals to fractions and find reciprocals)</li> <li>• Percentages (Convert between fractions, decimals and percentages, express a number as a percentage of another, find percentages of amounts, carry out percentage increase/decrease, find percentage profit/loss, use decimal multipliers and reverse percentage calculations)</li> <li>• Ratio and Proportion (Write ratios in the form 1 : m or m : 1 or in their simplest form, divide a quantity by a given ratio, write ratios a fractions and functions, identify direct proportion from a table of values, use ratios in scale models and to convert between measures and currencies and scale up recipes)</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 – 39 (7 weeks)</i>
<p><b>Content</b> Unit 5: Angles, polygons, parallel lines; Right-angled triangles: Pythagoras and trigonometry</p>	<p><b>Content</b> Unit 6: Real-life and algebraic liner graphs, quadratic and cubic graphs, the equation of a circle, rates of change and area under graphs made from straight lines</p>
<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Polygons, angles and parallel lines (Classify quadrilaterals and types of triangles, prove and use the fact that the angle sum in a triangle is <math>180^\circ</math> and the exterior angle is equal to the sum of the opposite interior angles, find missing angles in parallel lines, find missing interior and exterior angles of polygons and their angle sums, find the number of sides of a regular polygon given the interior angle and understand tessellations)</li> <li>• Pythagoras theorem and trigonometry (Use Pythagoras' theorem in 2D, use SOH-CAH-TOA to find missing sides and angles in right-angled triangles and know the exact values of <math>\sin/\cos/\tan</math> 0, 30, 45, 60 and 90)</li> </ul>	<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Graphs: the basics and real-life graphs (Plot points, draw and interpret straight line graphs, draw distance-time / velocity-time graphs and calculate measures from them, find the coordinates of the midpoint of line segments, calculate the length of a line segment and find the equations of a line through two points)</li> <li>• Linear graphs and coordinate geometry (Plot and draw straight lines, identify and interpret the gradients of lines, <math>y=mx+c</math>, sketch graphs given the gradient and intercept, find the equations of a straight line and explore parallel and perpendicular lines)</li> <li>• Quadratic, cubic and other graphs (Recognise linear, quadratic, cubic, reciprocal and circle graphs, plot and interpret graphs of quadratics, cubics, reciprocals and circles)</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

P.E.

CAMNAT Sports Studies	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9						
Unit No.	R053: Sports leadership	R053: Sports leadership	R053: Sports leadership	R052: Developing sports skills	R052: Developing sports skills	R052: Developing sports skills
Learning outcome	Learning Outcome 1: Know the personal qualities, styles, roles and responsibilities associated with effective sports leadership	Learning Outcome 2: Be able to plan sports activity sessions	Learning Outcome 3: Be able to deliver sports activity session  Learning Outcome 4: Be able to evaluate own performance in delivering a sports activity session	Learning Outcome 1: Be able to use skills, techniques and tactics/strategies/compositional ideas as an individual performer in a sporting activity.	Learning Outcome 2: Be able to use skills, techniques and tactics/strategies/compositional ideas as a team performer in sporting activity	Learning Outcome 3: Be able to officiate in a sporting activity
Practical	Leadership Activities	Basketball	Basketball (Delivery)	Badminton	Hockey	Football
	Leadership Activities	Netball	Netball (Delivery)	Table tennis	Rugby Union	Rounder's



## Year 9 Big Pictures

### Performing Arts

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<p><b>Content</b> Component 1: Exploring the Performing Arts Component 2: Developing Skills and Techniques in the Performing Arts</p>	<p><b>Content</b> Component 1: Exploring the Performing Arts Component 2: Developing Skills and Techniques in the Performing Arts</p>
<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Examine professional practitioners’ performance work</li> <li>• Explore the interrelationships between constituent features of existing performance material</li> <li>• Develop skills and techniques for performance</li> <li>• Apply skills and techniques in rehearsal and performance</li> <li>• Review own development and performance.</li> <li>• Develop the knowledge, understanding and skills in exploring and performing from a performance text.</li> <li>• Demonstrate how to use body expression to communicate a character from a text</li> <li>• Explore ways to create and perform a short piece scripted drama</li> <li>• Develop the ability to interpret a text for the stage.</li> <li>• Demonstrate an understanding of how meaning is communicated and interpreted through the use of voice, physical and non-verbal techniques (such as facial expression and gesture), use of space and spatial relationships, the presentation of characters/roles , relationships between performer and audience, production elements, such as set (including props), costume, lighting and sound.</li> </ul>	<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Examine professional practitioners’ performance work</li> <li>• Explore the interrelationships between constituent features of existing performance material</li> <li>• Develop skills and techniques for performance</li> <li>• Apply skills and techniques in rehearsal and performance</li> <li>• Review own development and performance.</li> <li>• Develop the knowledge, understanding and skills in exploring and performing from a performance text.</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<p><b>Content</b> Component 1: Exploring the Performing Arts</p>	<p><b>Content</b> Component 1: Exploring the Performing Arts Component 2: Developing Skills and Techniques in the Performing Arts</p>
<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Examine professional practitioners’ performance work</li> <li>• Explore the interrelationships between constituent features of existing performance material</li> </ul>	<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Apply skills and techniques in rehearsal and performance</li> <li>• Review own development and performance.</li> <li>• Develop the knowledge, understanding and skills in exploring and performing from a performance text.</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	

## Year 9 Big Pictures

<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<p><b>Content</b> Component 2: Developing Skills and Techniques in the Performing Arts</p>	<p><b>Content</b> Component 2: Developing Skills and Techniques in the Performing Arts</p>
<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Apply skills and techniques in rehearsal and performance</li> <li>• Review own development and performance.</li> <li>• Develop the knowledge, understanding and skills in exploring and performing from a performance text.</li> <li>• Demonstrate how to use body expression to communicate a character from a text</li> <li>• Explore ways to create and perform a short piece scripted drama</li> <li>• Develop the ability to interpret a text for the stage.</li> <li>• Demonstrate an understanding of how meaning is communicated and interpreted through the use of voice, physical and non-verbal techniques (such as facial expression and gesture), use of space and spatial relationships, the presentation of characters/roles , relationships between performer and audience, production elements, such as set (including props), costume, lighting and sound.</li> </ul>	<p><b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test:</p> <ul style="list-style-type: none"> <li>• Examine professional practitioners’ performance work</li> <li>• Explore the interrelationships between constituent features of existing performance material</li> <li>• Develop skills and techniques for performance</li> <li>• Apply skills and techniques in rehearsal and performance</li> <li>• Review own development and performance.</li> <li>• Develop the knowledge, understanding and skills in exploring and performing from a performance text.</li> <li>• Demonstrate how to use body expression to communicate a character from a text</li> <li>• Explore ways to create and perform a short piece scripted drama</li> <li>• Develop the ability to interpret a text for the stage.</li> <li>• Demonstrate an understanding of how meaning is communicated and interpreted through the use of voice, physical and non-verbal techniques (such as facial expression and gesture), use of space and spatial relationships, the presentation of characters/roles , relationships between performer and audience, production elements, such as set (including props), costume, lighting and sound.</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Combined Science

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content -Cells and DNA</b> <ul style="list-style-type: none"> <li>Cell structure and division and specialised cells</li> <li>DNA structure, replication and genetics</li> <li>Evolution and natural selection</li> </ul>	<b>Content -Periodic table</b> <ul style="list-style-type: none"> <li>Atoms, elements and compounds</li> <li>Patterns in the periodic table</li> <li>Types of bonding and electrolysis</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Draw and label plants and how they divide</li> <li>Describe the structure of DNA</li> <li>Use genetic diagrams to show inheritance</li> <li>Explain the process of natural selection and evolution</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know the parts of the atoms and calculations using it</li> <li>Understand how the periodic table is assembled</li> <li>Represent bonding using diagrams</li> <li>Describe the process of electrolysis</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<b>Content -Energy</b> <ul style="list-style-type: none"> <li>Renewable and non-renewable fuel sources</li> <li>Production of electricity and its distribution</li> <li>Circuit diagrams</li> <li>Forces – speed, distance time and road safety</li> </ul>	<b>Content - Waves and the EM spectrum</b> <ul style="list-style-type: none"> <li>Waves</li> <li>Uses of the EM spectrum</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know how electricity is generated and transferred</li> <li>Know the wiring and safety features of a plug</li> <li>Draw circuits and investigate resistance in a circuit</li> <li>Calculate speed, distance and time and interpret graphs</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Describe transverse and longitudinal waves</li> <li>Measure the speed of a wave in solids and liquids</li> <li></li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<b>Content - Hydrocarbons</b> <ul style="list-style-type: none"> <li>Uses and separation of crude oil</li> <li>Alkanes and alkenes</li> </ul> Evolution of the atmosphere and global warming	<b>Content –Plants and photosynthesis</b> <ul style="list-style-type: none"> <li>The products and reactants of photosynthesis</li> <li>Factors that increase the rate of photosynthesis</li> <li>Movement of water and other molecules in plants</li> </ul> Structure of a plant
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know the uses of crude oil an how it can be separated</li> <li>Be able to draw and name hydrocarbons</li> </ul> Know changes in the atmosphere and human impact on global warming and pollution	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know the factors that affect photosynthesis</li> <li>Describe how water, minerals and gases move within plants</li> <li>Describe the structure of a plant</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Biology

<b>Autumn 01</b> <i>Weeks 1 – 7 (7 weeks)</i>	<b>Autumn 02</b> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content – Cells and cellular processes</b> <ul style="list-style-type: none"> <li>Cell structure</li> <li>Cell division</li> <li>Aerobic and anaerobic respiration</li> </ul>	<b>Content – Respiration and photosynthesis</b> <ul style="list-style-type: none"> <li>Respiration recap</li> <li>Transport of substances in cells</li> <li>Photosynthesis and factors affecting the rate of photosynthesis</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Describe the structure, function and division of plant, animal, bacterial and stem cells</li> <li>Investigate cell structure using microscopes</li> <li>Describe the processes of aerobic and anaerobic respiration</li> <li>Interpret data on respiration</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Describe the processes of diffusion, osmosis and active transport and apply to unknown biological settings</li> <li>Describe photosynthesis and how plants use glucose</li> <li>Explain how the rate of photosynthesis can be changed</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<b>Spring 01</b> <i>Weeks 16 - 21 (6 weeks)</i>	<b>Spring 02</b> <i>Weeks 22 – 27 (6 weeks)</i>
<b>Content – communicable disease</b> <ul style="list-style-type: none"> <li>Types of pathogen and associated illnesses</li> <li>The role of white blood cells in fighting infection</li> <li>The development of new drugs</li> </ul>	<b>Content – Organ systems – focus on digestive organs</b> <ul style="list-style-type: none"> <li>Organs of the digestive system</li> <li>The components of different food molecules</li> <li>The action of enzymes on digestion</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Give examples, the spread of, symptoms and treatments of bacterial, viral, fungal and protist diseases</li> <li>Describe the role of white blood cells</li> <li>Explain how vaccinations, antibiotics and painkillers fight disease</li> <li>Describe how drugs were developed and discovered</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Identify organs of the digestive system and the role they play in digestion</li> <li>Describe the action of enzymes on digestion</li> <li>Explain the tests that can be used to identify different types of food molecule</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<b>Summer 01</b> <i>Weeks 28 – 32 (5 weeks)</i>	<b>Summer 02 (upto Big Test)</b> <i>Weeks 33 - 39 (7 weeks)</i>
<b>Content – Organ systems in animals and plants</b> <ul style="list-style-type: none"> <li>Organs of the circulatory system</li> <li>Types of blood vessel and the components in blood</li> <li>Organs of the respiratory system</li> <li>Plant organs</li> </ul>	<b>Content – ecosystem</b> <ul style="list-style-type: none"> <li>The structure of ecosystems</li> <li>Energy transfer in habitats</li> <li>Estimating the size of plant and animal populations</li> <li>The carbon cycle and water cycle</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Identify organs of the circulatory system and describe the flow of blood</li> <li>Describe the structure of a leaf and the organs of a plant</li> <li>Explain how plant organs support the movement of water and glucose through the plant</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Identify biotic and abiotic factors that affect populations in an ecosystem</li> <li>Describe how to use quadrats to estimate populations</li> <li>Explain how organisms are adapted to their environments</li> <li>Describe the carbon cycle and water cycle</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Chemistry

<b>Autumn 01</b> <i>Weeks 1 – 7 (7 weeks)</i>	<b>Autumn 02</b> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content – Atoms and the periodic table</b> <ul style="list-style-type: none"> <li>Atoms, elements and compounds</li> <li>Patterns in the periodic table</li> <li>Properties of group 1, 7 and 0 elements</li> </ul>	<b>Content – Chemical bonding</b> <ul style="list-style-type: none"> <li>The formation of covalent, ionic and metallic bonds</li> <li>Properties of the different types of bonded structures</li> <li>Structure and properties of carbon allotropes</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know the parts of the atoms and calculations using it</li> <li>Understand how the periodic table is assembled</li> <li>Draw ions of different elements</li> <li>Describe the properties of group 1, 7 and 0 elements</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Draw diagrams of the different bonding types</li> <li>Write and predict chemical formulae of compounds</li> <li>Describe the properties of bonded structures</li> <li>Know the properties and uses of carbon allotropes including fullerenes and nanotubes</li> </ul>
<b>Big Test – Week 12 (11 weeks of prep)</b>	
<b>Spring 01</b> <i>Weeks 16 - 22 (7 weeks)</i>	<b>Spring 02</b> <i>Weeks 23 (Spring 01) – 27 (5 weeks)</i>
<b>Content – Introduction to chemical changes</b> <ul style="list-style-type: none"> <li>The reactivity series and displacement reactions</li> <li>Oxidation and reduction</li> <li></li> </ul>	<b>Content - Hydrocarbons</b> <ul style="list-style-type: none"> <li>Uses and separation of crude oil</li> <li>Alkanes and alkenes</li> <li>Cracking and polymerisation</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know the reactivity series of metals</li> <li>Write word and symbol equations for displacement reactions</li> <li></li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Know the uses of crude oil and how it can be separated</li> <li>Be able to draw and name hydrocarbons</li> <li>Describe and explain trends and patterns in hydrocarbons – interpret data</li> </ul>
<b>Big Test – Week 26 (14 weeks of prep)</b>	
<b>Summer 01</b> <i>Weeks 28 – 33 (6 weeks)</i>	<b>Summer 02 (upto Big Test)</b> <i>Weeks 34 – 35 (2 weeks)</i>
<b>Content – Chemistry of the atmosphere</b> <ul style="list-style-type: none"> <li>Evolution of the atmosphere</li> <li>The role of greenhouse gases</li> <li>Global warming</li> <li>Impact of pollution on the atmosphere</li> </ul>	<b>Content – Intro to chemical calculations</b> <ul style="list-style-type: none"> <li>Calculate relative formula mass</li> <li>Know the principles behind conservation of mass</li> </ul>
<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Describe how our current atmosphere developed</li> <li>Know changes in the atmosphere</li> <li>Describe the human impact on global warming</li> <li>Evaluate the reliability of data and information</li> </ul>	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Calculate RFM of different compounds</li> <li>Write balanced symbol equations to show conservation of mass</li> <li>Describe accuracy/reliability of experiments showing conservation of mass</li> </ul>
<b>Big Test – Week 36 (10 weeks of prep)</b>	
	<b>Summer 02 (after Big Test)</b> <i>Weeks 36 - 39 (4 weeks)</i>
	<b>Content – Intro to chemical calculations</b> <ul style="list-style-type: none"> <li>Reactivity series</li> <li>Oxidation and reduction</li> </ul>
	<b>Assessment Objectives</b> <ul style="list-style-type: none"> <li>Write ionic half equations for oxidation and reduction</li> <li>Describe and explain the process of electrolysis</li> </ul>
	Big Test next year (will total 16 weeks of prep)

## Year 9 Big Pictures

### Physics

<b>Autumn 01</b> <i>Weeks 1 – 7 (7 weeks)</i>	<b>Autumn 02</b> <i>Weeks 8 – 15 (8 weeks)</i>
<b>Content – Forces</b> <ul style="list-style-type: none"> <li>Vectors and scalars and resultant forces</li> <li>Moments</li> </ul>	<b>Content – Energy</b> <ul style="list-style-type: none"> <li>Types of energy and energy transfers</li> <li>Work done, power and efficiency</li> </ul>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Know if a force is a vector or scalar</li> <li>Calculate moments of levers</li> <li>Show resultant forces using diagrams</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Know different types of energy</li> <li>Calculate work done, power and efficiency</li> <li>Explain how the world is supplied with energy</li> </ul>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<b>Spring 01</b> <i>Weeks 16 - 21 (6 weeks)</i>	<b>Spring 02</b> <i>Weeks 22 – 27 (6 weeks)</i>
<b>Content – Electricity</b> <ul style="list-style-type: none"> <li>Electricity and circuits</li> <li>Linking voltage, current and resistance</li> </ul>	<b>Content – Space</b> <ul style="list-style-type: none"> <li>Solar system and stars</li> <li>Red-shift</li> </ul>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Explain how static is formed in terms of charges</li> <li>Describe differences in parallel and series circuits</li> <li>Use formulae to link voltage, current and resistance</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Describe features of planetary orbits and satellites</li> <li>Explain the life cycle of stars from birth to death</li> <li>Use red-shift to explain expanding universe theory</li> </ul>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<b>Summer 01</b> <i>Weeks 28 – 32 (5 weeks)</i>	<b>Summer 02 (upto Big Test)</b> <i>Weeks 33 - 39 (7 weeks)</i>
<b>Content – Electromagnetism</b> <ul style="list-style-type: none"> <li>Magnetism and magnetic forces</li> <li>Using magnets to produce electricity</li> </ul>	<b>Content – Atomic structure</b> <ul style="list-style-type: none"> <li>Structure of the atom</li> <li>Radioactive decay and nuclear equations</li> <li>Hazards and uses of nuclear radiation</li> </ul>
<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Use magnetic fields to explain magnetism</li> <li>Explain the how generators produce electricity</li> <li>Describe the purpose of transformers</li> </ul>	<b>Assessment Objectives</b> This is the knowledge, application and skills assessed by the Big Test: <ul style="list-style-type: none"> <li>Use knowledge of the structure of the atom to explain nuclear radiation</li> <li>Use nuclear equations to explain nuclear decay</li> <li>Explain to minimise the hazards of radioactive materials</li> <li>Describe uses of radioactive materials</li> <li>Compare fusion and fission reactions</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	

## Year 9 Big Pictures

### Spanish

<i>Autumn 01</i> <i>Weeks 1 – 7 (7 weeks)</i>	<i>Autumn 02</i> <i>Weeks 8 – 15 (8 weeks)</i>
<p><b>Content: somos asi</b></p> <ul style="list-style-type: none"> <li>Talking about things you like</li> <li>Talking about your week</li> <li>Talking about days out</li> <li>Birthdays</li> <li>Using a variety of tenses</li> <li>Films</li> <li>Life as a celebrity</li> </ul> <p>Talking films and film stars</p>	<p><b>Content: orientate</b></p> <ul style="list-style-type: none"> <li>Saying what you have to do at work</li> <li>Talking about your ideal job and your future</li> <li>Describing jobs</li> </ul> <p>Exploring authentic resources</p>
<b>Big Test – Week 13 (12 weeks of prep)</b>	
<i>Spring 01</i> <i>Weeks 16 - 21 (6 weeks)</i>	<i>Spring 02</i> <i>Weeks 22 – 27 (6 weeks)</i>
<p><b>Content: en forma</b></p> <ul style="list-style-type: none"> <li>Diet and healthy lifestyles</li> <li>Daily routine</li> <li>Talking about getting fit</li> <li>Talking about ailments</li> <li>Using a variety of tenses</li> </ul>	<p><b>Content: jovenes en accion</b></p> <ul style="list-style-type: none"> <li>Children’s rights</li> <li>Fair trade</li> <li>Recycling</li> <li>Talking about environmental changes</li> <li>Fundraising</li> </ul> <p>World issues</p>
<b>Big Test – Week 26 (12 weeks of prep)</b>	
<i>Summer 01</i> <i>Weeks 28 – 32 (5 weeks)</i>	<i>Summer 02 (upto Big Test)</i> <i>Weeks 33 - 39 (7 weeks)</i>
<p><b>Content: una Aventura en Madrid</b></p> <ul style="list-style-type: none"> <li>Meeting and greeting people</li> <li>Talking about a treasure hunt</li> <li>Describing a day trip</li> <li>Discussing the final day of a visit</li> </ul> <p>Making yourself understood</p>	<ul style="list-style-type: none"> <li>Repaso: Year 9 content, modules 1-5</li> <li>Introduction to GCSE</li> </ul>
<b>Big Test – Week 37 (10 weeks of prep)</b>	