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| **SMSC and British Values covered by SCIENCE** | **Lesson offering coverage per item for each year group:** | | | | |
| **Year 7** | **Year 8** | **Year 9** | **Year 10** | **Year 11** |
| 1. **Are reflective about their own beliefs, religious or otherwise, that inform their perspective on life and their interest in and respect for different people’s faiths, feelings and values** | Scientific discovery and theory and how that fits into belief systems.  Respect for the environment and other organisms through understanding of ecosystems | Scientific discovery and theory and how that fits into belief systems.  Nutrition & digestion - respect for their own health and bodies.  Human reproduction | Scientific discovery and theory and how that fits into belief systems.  Inheritance, chromosomes, DNA and genes  Development of the atomic model and periodic table | Scientific discovery and theory and how that fits into belief systems.  Atmosphere | Scientific discovery and theory and how that fits into belief systems.  Evolution  Atmosphere  Organic Chemistry |
| 1. **Have a sense of enjoyment and fascination in learning about themselves, others and the world around them** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| Ecosystems and Earth & atmosphere topics.  Cells  Matter | Nutrition & digestion - respect for their own health and bodies.  Human reproduction  Impact of smoking  Waves  Space | Inheritance, chromosomes, DNA and genes  Development of the atomic model and periodic table  Earth and atmosphere | Cells  Nutrition  Uses and hazards of radioactive emissions  Domestic use of electricity  Bonding  Quantitative Chemistry  Atmosphere  Catalysts  Fuel cells and batteries  Metal extractions  Infection and response | Contraception  Space  Atmosphere  Organic Chemistry  Evolution  Reproduction  Using resources  Waves  Inheritance, chromosomes, DNA and genes  Variation |
| 1. **Use imagination and creativity in their learning** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| In all topics – conveyed through the variety of teaching techniques used, especially practical enquiry work. | In all topics – conveyed through the variety of teaching techniques used, especially practical enquiry work. | In all topics – conveyed through the variety of teaching techniques used, especially practical enquiry work. | In all topics – conveyed through the variety of teaching techniques used, especially practical enquiry work. | In all topics – conveyed through the variety of teaching techniques used, especially practical enquiry work. |
| 1. **Reflect on their experiences** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| In all topics. | In all topics. | In all topics. | In all topics. | In all topics. |
| 1. **Know difference between right and wrong and apply this in school and in their own lives** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| Ecosystems and Earth & atmosphere topics. | Impact of smoking  Human reproduction | Health- drugs  Earth and atmosphere | Nutrition  Atmosphere | Reproduction  Inheritance, chromosomes, DNA and genes  Variation  Atmosphere  Using resources  Organic Chemistry |
| 1. **Understand the consequences of their behaviour and actions** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| Ecosystems and Earth & atmosphere topics. | Nutrition & digestion  Impact of smoking  Human reproduction | Health- drugs  Inheritance, chromosomes, DNA and genes  Earth and atmosphere | Nutrition  Atmosphere  Infection and response | Contraception  Reproduction  Atmosphere  Organic Chemistry  Using resources |
| 1. **Develop social skills in different contexts, for example working and socialising with other pupils, including those from different religious, ethnic and socio-economic backgrounds** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| Practical work is a unique opportunity to embed skills in working collaboratively with peers to achieve a goal. | Practical work is a unique opportunity to embed skills in working collaboratively with peers to achieve a goal. | Practical work is a unique opportunity to embed skills in working collaboratively with peers to achieve a goal. | Practical work is a unique opportunity to embed skills in working collaboratively with peers to achieve a goal. | Practical work is a unique opportunity to embed skills in working collaboratively with peers to achieve a goal. |
| 1. **Participate in a variety of communities and social settings, including by volunteering, cooperating well with others and being able to resolve conflicts effectively (this needs to be conducted in these settings)** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
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| 1. **Accept and engage with the fundamental British Values of democracy, the rule of law, individual liberty and mutual respect and tolerance of those with different faiths and beliefs; develop and demonstrate skills and attitudes that will allow them to participate fully and contribute positively to life in modern Britain.** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
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| 1. **Understand and appreciate the wide range of cultural influences that have shaped their own heritage and that of others and how these different cultures, in the school and further afield, are an essential element of their preparation for life in modern Britain.** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
| Range of scientists who have contributed to our ever evolving knowledge of Science. | Range of scientists who have contributed to our ever evolving knowledge of Science. | Range of scientists who have contributed to our ever evolving knowledge of Science. | Range of scientists who have contributed to our ever evolving knowledge of Science. | Range of scientists who have contributed to our ever evolving knowledge of Science. |
| 1. **Recognise, and value, the things we share in common across cultural, religious, ethnic and socio-economic communities.** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
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| 1. **Have knowledge of Britain’s democratic parliamentary system and its central role in shaping our history and values, and in continuing to develop Britain.** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
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| 1. **Explore, improve understanding of and show respect for different faiths and cultural diversity and the extent to which they understand, accept and respect diversity. This is shown by their respect and attitudes towards different religious, ethnic and socio-economic groups in the local, national and global communities.** | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
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