



SMSC Departmental Overview

Department:

SCIENCE

Whole School Vision:

Corby Technical School are committed to the development of the Social, Moral, Spiritual and Cultural (SMSC) understanding of our pupils. We are a school that delights in being ethnically, religiously and culturally diverse, both within our student and staff composition, and we are proud that within this diversity we **all** share and respect fundamental British values. It is the vision of this institution that all students are: encouraged to recognise and respect central British values; are protected from extremist (or prejudiced) views during the delivery of our curriculum; and that our students are offered a balanced presentation of viewpoints when political issues are brought to their attention.

Whole Staff Commitment:

It is expected that within **every** lesson that is taught at Corby Technical School, regardless of subject or teacher, that the following expectations are adhered to and maintained:

- ✓ That every opportunity is taken for pupils to develop their **self-knowledge, self-esteem and self-confidence**.
- ✓ That opportunity is given for pupils to understand the **difference between right and wrong**, and gain a **respect for civil and criminal law**.
- ✓ Pupils are made to **accept responsibility** for their behaviour and show initiative towards their own **self-development**.
- ✓ That provision is given for students to **appreciate their own culture**, the **cultures of others** and develop an **understanding of the world**.
- ✓ Pupils are aware of the **fundamental values of British society** (democracy, law, liberty, respect, responsibility and tolerance).
- ✓ That every opportunity is taken to **challenge radical**, and **biased political and social views**.
- ✓ That the **safety and well-being** of students is the main priority of school life and all we do. We will promote student autonomy in making **informed choices** regarding their health, fitness, emotional and mental well-being, as well as their relationship with their peers.
- ✓ That opportunity will be given to **celebrate** and build **pride** in personal and school **achievement**.
- ✓ Pupils are aware of the importance of **attendance** and appropriate **conduct** in school and employment.

Departmental Commitment:

It is expected that individual departments within the school will address aspects of the SMSC syllabus throughout the year. Departments are encouraged to devise their own strategies for incorporating SMSC into their schemes of work. Detailed below is how the department identified above intends to incorporate the SMSC strands not covered by the **Whole Staff Commitment**.

Core Departmental Values:

Identified below are those aspects of SMSC that would be prevalent within the majority of the lessons within the department identified above; they would be easily identifiable within most lessons through the work being conducted by the students.

- ✓ Students will be encouraged to develop a sense of enjoyment and fascination in learning about themselves, others and the world around them.
- ✓ Students will reflect on their experiences and apply their understanding to a range of issues.
- ✓ Students will consider and recognise legal boundaries and subsequently develop an understanding of the civil and criminal law of England.
- ✓ Students will investigate and consider views about moral and ethical issues.

Topical SMSC:

Identified below are those aspects of SMSC that are identifiable within particular schemes of work that take place over the course of an academic year – as such key elements within these aspects have been distinguished and clarified.



<p>✓ Students will be encouraged to develop a sense of enjoyment and fascination in learning about themselves, others and the world around them.</p>	<p>Year 7: Term 2: Reproduction, Term 5: Disease and harmful substances Year 8: Term 1: Breathing and respiration, Term 2: Disease and microbes, Term 4: Genetics Year9: Biology through course. Physics, throughout the course, Chemistry through course Year 10: Biology through course. Physics, throughout the course, Chemistry through course Year 11: Biology through course. Physics, throughout the course, Chemistry through course Year 12: Continuous through Biology course. Continuous throughout the physics course. Continuous through Chemistry course.</p>
<p>✓ Students will be encouraged to be reflective about their own beliefs and those of others and compare different people’s faiths, feelings and values in order to develop their own perspective on life.</p>	<p>Year 7: Term 3: Energy and electricity, Term 1/2: Cells and reproduction Year 8: Term 3: Generating energy, Term 4: Genetics Year 9: Term 2: Generating energy, Term 3: Inheritance Year 10 Term 1: C/SB4 Evolution and natural selection, C/SB5: Health and disease. CP3 Conservation of energy. CP6 Radioactivity. SC10/11/12/13 Metals reactions Year 11: Term 1: C/SB9: Ecology and conservation, SC20/21 Fuels Year 12: Term 3: Biology: Genetics and DNA, Term 4: Dissections</p>
<p>✓ Students will reflect on their experiences and apply their understanding to a range of issues.</p>	<p>Year 7: Term 3: Energy and Electricity, Term 1/2: Cells and reproduction Year 8: Term 1: Breathing and Respiration Term 2: Disease and Microbes, Generating energy, Term 3: Speed and Force, Term 4: Genetics, Pollution Year9: Term 1: Biology through course. Physics, throughout the course, Chemistry through course Year 10: Biology through course. Physics, throughout the course, Chemistry through course Year 11: Biology through course. Physics, throughout the course, Chemistry through course Year 12: Physics, Module 3 forces and motion, Term 3: Biology Genetics and DNA All Years: Practical investigations</p>
<p>✓ Students will develop an understanding of the consequences of behaviour and action in respect to the impact upon others.</p>	<p>Year 7: Term 1: Lab Safety, Term 1/2: Cell and Reproduction, Term 5: Disease and harmful substances Year 8: Term, Term 2: Disease and Microbes 3: Health and diet Year 9: Term 1: C/SP2 Speed and force, Term 2: C/SB2 Stem cells, Term 3: C/SB3 Inheritance, Term 2 CP2 Motion and forces CP3 Conservation of energy. Year 10: Term 1: C/SB4 Evolution and selection. Term 3 SP10,11 (CP9,10) Electricity and electrical circuits. SC10/11/12/13 Metals reactions Year 11: Term 1: C/SB9 Ecology and Conservation SC20/21 Fuels Year 12:Term 2 physics 3.1 Motion, Term 3: biology Genetic and DNA and transport systems All Years: Practical investigation: Lab Safety.</p>
<p>✓ Students will study and consider the difference between right and wrong and will apply this understanding to their own lives.</p>	<p>Year 7: Term 1: Lab Safety, Term 2: Reproduction Year 8: Term 4: Genetics Year 9 Term 1: C/SP2: Motion and Forces and C/SP3 Conservation of energy Year 10: Term 1: C/SB4 Inheritance, SP6 Radioactivity SC10/11/12/13 Metals reactions Year 11: Term 1: C/SB9 Ecology and conservation, SC20/21 Fuels Year 12: Term 3: Genetics and DNA, Transport systems</p>
<p>✓ Students will consider and recognise legal boundaries and subsequently develop an understanding of the civil and criminal law of England.</p>	<p>Year 7: Term 1/2: Cells and Reproduction, Term 5: Disease and harmful substances Year 8: Term 3: Health and Diet, Term 4: Genetics Year 9: Term 1: C/SP2: Forces and motion, Term 2: C/SB2: Stem Cells, Term 3: C/SB3: Inheritance Year 10: C/SB5: Health and disease Year11: C/SB9: Ecology and conservation Year 12: Term 2: DNA Replication, Term 3: Biology Genetics, Term 2 physics 3.1 Motion</p>
<p>✓ Students will investigate and consider views about moral and ethical issues.</p>	<p>Year 7: Term 1: Habitats, Term 1/2: Cells and Reproduction Year 8: Term 2: Generating Energy, Term 4: Genetics, Farming, Pollution Year 9: Term 1: C/SP2: Forces and motion Term 2: C/SB2: Stem Cells, Term 3: C/SB3 Inheritance Year 10:Term 1: C/SB4: Evolution and selection, C/SB5 Health and disease, SP6 Radioactivity. SC10/11/12/13 Metals reactions Year 11: Term 1: C/SB9: Ecology and Conservation SC20/21 Fuels Year 12: Term 2 physics 3.1 Motion. Term 3: Biology Genetic and DNA and Transport systems</p>
<p>✓ Students will acquire an ability to understand and develop an appreciation of the viewpoints of others on a range of issues.</p>	<p>Year 7: Term 1/2: Cells and Reproduction Year 8: Term 2: Generating Electricity, Term 4: Pollution Year 9: Term 1: Generating Electricity, Pollution Term 2 C/SP3 Conservation of energy. Year 10: Term 1: C/SB4, evolution and selection SP6 Radioactivity SC10/11/12/13 Metals reactions Year 11: C/SB9: Ecology and conservation SC20/21 Fuels Year 12: Term 3: Biology Genetic and DNA and Transport systems</p>
<p>✓ Students will develop and use a range of social skills to learn and socialise with their peers (including those of different religious, ethnic and socio-economic backgrounds).</p>	<p>All Year groups: Practical Investigation/ group work</p>



Cottingham Road, Corby, Northants, NN17 1TD t 01536 213100 e enquiries@corbytechnicalschool.org

✓ Students will explore how Science influences the next stage of their education and/or employment.	All Year groups: Links to careers related to topics. e.g. Ecologists, Geneticists, Astronomers, and Chemists etc...
✓ Students will develop an appreciation of a wide range of cultural influences, some of which would have shaped their own heritage.	All Years groups: Links to famous scientists/ inventions. E.g. Watson and Crick, Darwin, Renewable and non-renewable power stations, genetic advances, Space exploration, Dietary needs etc...
✓ Students will develop and utilise a range of social skills in different contexts in order to aid their learning.	All Year groups: Practical Investigation/ group work

Signed HOD:	Stephen Cox	Date:	05/11/17
Checked and Signed SMSC:		Date:	
Checked and Signed Principal:			