



Birch Wood Vale School  
**Year 11**  
 Autumn Term 2020  
 Curriculum Information



Science	
Weight and terminal velocity	The difference between mass and weight. What terminal velocity means
Forces and braking	The forces that oppose the driving force of a vehicle. What the stopping distance of a vehicle depends on
Principles of hormonal control	What a hormone is and the main organs of the endocrine system
Human reproduction	The main reproductive hormone and how hormones control the changes in puberty
DNA and the genome	About DNA as the material of inheritance and what a genome is
Inherited disorders	How the human genetic disorders polydactyly and cystic fibrosis are inherited
Finite and renewable resources	How to distinguish between finite and renewable resources, given appropriate information
Water safe to drink	The difference between potable water and pure water
Treating waste water	How waste water is made safe to release into the environment
Reduce, reuse, and recycle	How using less, reusing and recycling of materials decreases their environmental impact
The nature of waves and the properties of waves	What waves can be used for, what transverse waves are, what longitudinal waves are. What is meant by amplitude, frequency, and wavelength of a wave
Variation	What makes you different from the rest of your family. Why identical twins are not exactly the same in every way
Selective breeding	What selective breeding is. How selective breeding works

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ART	Workshops Portfolio Work	Year 11 GCSE art will begin with a series of workshops in the first instance, exploring various art materials and techniques, such as colour mixing; mark making and an introduction to working with mixed media. They will then begin their second project for their Component 1 Portfolio in the first half term, responding to the starting point 'human form'. This project will look at portraiture and will encourage the students to study the work of portrait artists such as: Takahiro Kimura, Francis Bacon and Guy Denning.
DT	Board Games	Learners will research design and make a board game that incorporates elements of a chosen design movement.
Construction	Health, Safety and Welfare	Learners will be working through the unit 10 be exploring different areas of construction Health, safety and welfare issues
Home Cooking Skills Level 1	Introduction, food and kitchen safety. Breakfast and Eggs	Main focus this term is introducing the course and the importance of health and safety in the kitchen. Moving on to sourcing and cooking eggs, developing this further into different types of breakfasts.
Home Cooking Skills Level 2	Introduction, revisit safety aspects Fish	Main focus this term is introducing the course and revisit importance of health and safety in the kitchen. Moving onto sourcing, sustainability and cooking with fish.
Sport & Active Leisure	<u>Unit 16</u> : Working as a team	This unit looks at how learners can be effective members of a team. Learners will identify the skills, roles and responsibilities needed to complete the team task and match their skills accordingly; will take part in team tasks and review their contribution.
Moving Together	Dance Theory and Practical	Students will be exploring the arts industry, specifically through dance. The students will be working at varying levels theoretically, and will be challenged practically to develop technique, style, performance, collaboration, creativity, leadership and confidence. Theoretical and practical elements will complement each other, encouraging a deeper understanding of dance and creative opportunities.
Computing	E-safety  Computational Thinking	Students will be focusing on how to stay safe when online. They will be looking at different social media sites and developing knowledge on the importance of keeping information private and being safe. Students will also be looking into how the Internet has its advantages and disadvantages.  Before computers can be used to solve a problem, the problem itself and the ways in which it could be resolved must be understood. Computational thinking techniques help with these tasks. Students will develop skills that allows us to take a complex problem, understand what the problem is and develop possible solutions. Students will develop an understanding which shows them solutions in a way that a computer, a human, or both, can understand. Students will also learn basic programming skills using gaming programs, this will allow them to create a product which they can program themselves to complete a specific task.

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PE	<u>Net Games</u>	Students are playing tennis this half term with Melton Tennis club coaches, on the tennis courts, learning the skills and rules of tennis. Students will develop skills such as bat and ball control, sportsmanship and teamwork. The unit will also provide students opportunities to take further roles as leaders, coaches and officials.
	<u>Health related fitness</u>	Students will be learning about various components of fitness through experiencing different methods of training and exercise. Students will also be learning about and undergoing fitness testing.
RE	Christianity Beliefs	Students will learn the key concepts and key beliefs within Christianity and the foundations of the religion. They will learn key words and develop an understanding of how beliefs influence Christians in the modern world, with the aim being that they can develop a sense of understanding about the benefits and problems that religious beliefs have in relation to a range of ethical and philosophical dilemmas. They will look at the concepts of evil and suffering, the nature of God, beliefs about creation and the origins of the religion by looking at the life and key teachings of Jesus.
PSHE	Relationships	Students will learn to understand their emotions and feelings, and begin to process the experiences they have had. They will rebuild relationships and re-learn how to interact positively with others. Young people will be supported to engage with self-regulation strategies, which will help them to feel safe and calm.
	Community	Students will learn to understand the world we are now living in and to equip them with tools and strategies to help them process what is different and what we can do to help. To re-learn the routines and structures of the school community.
	Learning to Learn	Students will be given the opportunity to rebuild and re-skill themselves as learners in order to regain their confidence in learning.
	Well-being	We will support our students to explore their feelings, emotions and sense of well-being. This will enable them to acknowledge, accept and feel secure and positive in the world we now live in.

Useful websites: [BBC Bitesize KS4 / GCSE](#)

We are pleased to help you with any questions you may have about your child.