

# Year 10 Spring 2:1

## English

In English this term, pupils will be developing their writing skills by writing a variety of short stories using the literary device learnt in the previous term. Pupils will be given a range of scenario to which they will have to develop a story from, with the focus being on a specific thing such as: the tone and structure. The key skills that will be developed throughout this term will consist of: analysing, evaluating and writing. Pupils will read a variety of literature, with the emphasis being on retrieval, inference and predicting.

## Maths

Spring 1 begins with a continuation of rounding and an introduction to upper and lower bounds. We then re-cap on the four operations, using mental and written strategies to problem solve. Pupils begin identifying factors and use this knowledge to find the highest common factor and lowest common multiple, beginning to use these techniques with real world scenarios. Our work within algebra continues with the introduction of expanding and factorising single brackets and work using input and output machines.

## Science

Pupils will be able to describe all the changes involved in the way energy is stored when a system changes, for common situations. Pupils will learn how to calculate the changes in energy involved when a system is changed. Pupils will be describing how energy is dissipated. Pupils should be able to explain ways of reducing unwanted energy transfers and describe how the rate of cooling of a building is affected by the thickness and thermal conductivity of its walls. Pupils will be able to describe the main energy sources available, distinguishing between energy resources that are renewable and non-renewable, comparing their uses and describe the environmental impact arising from the use of different energy resources.

## Business

In Business Studies this half term we will cover Unit 1, Topic 4, 'Making a business effective'. We will begin by investigating the difference between limited and unlimited liability and the different types of business start-ups. Following this we will analyse the most appropriate type of business ownership for a range of business start-ups, before exploring the four elements of the marketing mix and writing a business plan.

## History

In this term, pupils will be studying 'Germany 1890-1945'. This will involve understanding of the experiences of Germans under the Nazis. Pupils will assess different ways in which the Nazis reduced unemployment and how ordinary Germans were treated by the Nazis. They will evaluate the impact of war. After this, pupils will describe what Hitler's 'ideal' young person was like, describing what Nazis Aryan ideas were and what the Nazi policies were on education, women's lives and on Christians, and how they responded to Nazi rule. Pupils will then examine why Hitler persecuted Jewish people and the reasons for the Final Solution. They will analyse how the Nazis used terror tactics, propaganda and censorship to maintain control.

## PSHE/RE

In PSHE this term we will be looking at risk and safety, why teenagers take more risks than any other age group. We will be exploring how different action hold the possibility of ever a positive or negative outcome to risk. We will be analysing the effects both short term and long term of gambling. We'll be exploring our rights and responsibilities when it comes to our online behaviour with the footprint it leaves and how that can affect future prospects.

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PE	Horticulture	Food Technology
<p>In the first part of the Spring term, we will focus on basketball invasion games, developing our skills, resilience and teamwork. In the second half of the Spring term, we will focus on football skills games, developing our striking, fielding, attacking and defending skills.</p>	<p>In Horticulture this term we will re-cap the allotment rules. We will learn how to winter prune soft fruit and fruit trees. We will learn about the importance of wildlife and how to encourage it. We will prepare for The RSPB Big Schools Bird Watch, researching and supplying a selection of suitable wild bird food to attract a wide selection of birds and take part in a national bird survey. We will learn about tubers, bulbs and corms. We will research and plan a vegetable bed for a summer crop including a crop rotation.</p>	<p>In Food Technology this half we will be looking at vitamins and minerals with the different types, the main sources and the effect to our bodies. We will studying what happens if we have a deficiency or excess of vitamins and minerals in our diets. We will develop how to modify dishes to promote health through altering or changing ingredients as well as cooking methods. As well as looking at these areas we will be cooking a range of products including stir-fry, vegetarian meals and pizzas.</p>