	Content	Concepts	Connections	Competences
Autumn	<ul> <li>Describe the content of a healthy human diet and explain why each is needed</li> <li>Calculate the energy requirements in a healthy daily diet a person loses mass when the energy content of the food taken in is less than the amount of energy expended by the body. Exercise increases</li> <li>The amount of energy expended by the body.</li> <li>Describe the consequences of imbalances in the diet, including obesity, starvation and deficiency diseases</li> </ul>	<ul> <li>Food and diet</li> <li>Balance of food groups</li> </ul>	<ul> <li>Teamwork</li> <li>Communication skills</li> <li>Language skills</li> <li>PSHE – health issues.</li> <li>Creativity – poster</li> <li>Maths – calculations, equations, rearrange formula.</li> <li>Geography – graphing.</li> <li>Reflective skills – history</li> <li>History – links to global aspects of biology – scientists.</li> </ul>	Explain that a healthy diet contains the right balance of the different foods you need and the right amount of energy.  Describe that:     carbohydrates, fats and proteins are used by the body to release energy and to build cells.     Mineral ions and vitamins are needed in small amounts for healthy functioning of the body.
	<ul> <li>Describe the tissues and organs of the human digestive system including adaptations to function</li> <li>Explain how the digestive system digests food using enzymes as simple biological</li> </ul>	Health issues		A person is malnourished if their diet is not balanced. This may lead to a person being overweight or underweight. An unbalanced diet may also lead to deficiency diseases or
	catalysts.  The rate at which all the chemical reactions in the cells of the body are carried out (the metabolic rate) varies with the amount of activity you do and the			conditions such as Type 2 diabetes.  evaluate information about the effect of food on health
	<ul> <li>proportion of muscle to fat in your body.</li> <li>Metabolic rate may be affected by inherited factors.</li> <li>Inherited factors also affect our health; for example</li> <li>cholesterol level.</li> </ul>			Investigate the energy in different foods  Evaluate the validity of experiments to determine the energy in foods.