

# Year 10: ASK Yourself!

Subject: Chemistry

Unit: 10 – Sustainable Resources

	Launching 1-2	Developing 3-4	Progressing 5-6	Mastering 7-9
<b>S</b> kills				
	To be able to state examples of natural products that are supplemented or replaced by agricultural and synthetic products. To be able to state why Life Cycle Assessment (LCA) are necessary.	To be able to distinguish between finite and renewable resources from given information. To be able to describe the components of a Life Cycle Assessment (LCA).	To be able to extract and interpret information about resources from charts, graphs and tables. To be able to interpret LCAs of materials or products from information.	To be able to extract, interpret and evaluate information about resources from charts, graphs and tables. To be able to carry out a simple comparative LCA for shopping bags.
<b>K</b> nowledge				
	To be able to state examples of recyclable and reusable materials. To be able to distinguish between potable water and pure water. To be able to explain how waste water is treated. To be able to state why biological methods of metal extraction are used.	To be able to describe ways of recycling and reusing materials. To be able to describe the differences in treatment of groundwater and salty water. To be able to describe the process of phytomining.	To be able to explain why recycling, reusing and reducing are needed. To be able to explain what is needed to provide potable water for all. To be able to describe the process of bioleaching. To be able to describe how sewage is treated.	To be able to evaluate ways of reducing the use of limited resources. To be able to compare the ease of treating waste, ground and salt water. To be able to evaluate alternative biological methods of metal extraction.