



- ✓ I am confident that I understand this and can apply this to problems
- ? I have some understanding but I need to revise this some more
- * I do not understand this and I need help with it

I will be successful if I can...		How well can you do this?
3 rd	Predict the effect of human overpopulation on the environment and society	✓ ? x
3 rd	Explain, by giving examples, why plants are very important to supporting life on Earth	✓ ? x
2 nd	Give examples of how plants have benefited society	✓ ? x
3 rd	Describe the process of photosynthesis using the word equation	✓ ? x
3 rd	Name the form of food green plants produce	✓ ? x
3 rd	Describe how green plants store the food they produce in their leaves	✓ ? x
4 th	Describe how plants use nitrogen, phosphorous and potassium	✓ ? x
2 nd	Describe the effect of fertilisers on the growth of plants	✓ ? x
3 rd	Explain the link between the use of fertilisers, plant yield and nutrient level in the soil	✓ ? x
2 nd	List the risks and benefits of using chemical fertilisers	✓ ? x
3 rd	Give examples of chemical agricultural methods used to increase plant yield	✓ ? x
3 rd	Evaluate the impact of intensive farming on food production	✓ ? x
4 th	Analyse a sample of water to find out how much chemical fertilisers are present in the source of water	✓ ? x
4 th	Explain how the use of chemical fertilisers can lead to algal blooms and a reduction in biodiversity	✓ ? x
2 nd	Discuss the different uses of water	✓ ? x
2 nd	Give examples of methods used to purify water	✓ ? x
2 nd	Explain why chemicals are often added to drinking water	✓ ? x
2 nd	Describe different how to conserve water in the home, school and globally	✓ ? x
3 rd	Compare the use of chemical fertilisers to organic farming on food production	✓ ? x
3 rd	Give examples of alternatives to chemicals in agriculture and their impact on food production	✓ ? x

2 nd	Describe how fossil fuels are used in Scotland	✓	?	x
4 th	Describe the formation of fossil fuels	✓	?	x
3 rd	State the products of a chemical reaction involving the burning of fossil fuels	✓	?	x
3 rd	Describe the impact of burning fossil fuels on the environment	✓	?	x
3 rd	Describe the formation and impact of acid rain	✓	?	x
4 th	Explain why we need to use the remaining fossil fuel supply responsibly	✓	?	x
2 nd	Suggest ways you can reduce your own energy use and live more sustainably	✓	?	x
3 rd	Explains how the level of carbon dioxide in the atmosphere has increased over time	✓	?	x
4 th	Describe the steps in the carbon cycle	✓	?	x
3 rd	Describe the relationship between carbon dioxide levels in the atmosphere and global temperatures because of the greenhouse effect	✓	?	x
3 rd	Give examples of renewable energy sources used in Scotland	✓	?	x
3 rd	List advantages and disadvantages of renewable energy sources	✓	?	x
4 th	Evaluate the risks and benefits of different energy sources	✓	?	x