## The Sustainable Village - Answers L2

1	Any three of:
	Planting seed; ploughing, harrowing and drilling; spraying crops; harvesting and drying; feeding grain to
_	animals used in meat production; transport; packaging/production of plastics.
2	Oils, coal and gas made from the remains of living organisms over many millions of years.
3	When the world's supply of oil reserves cannot keep up with demand.
4	Any two of:
	Cost of diesel for farm machinery; heating greenhouses; transporting a) food for animals b) pesticides and
	other chemicals used on farms c) food to market
5	Distance travelled from production to shelf.
6	Through coal powered or nuclear powered power stations.
7	Answers can include any of:
	Wind power Solar power Hydro power
	Bio fuel boilers Thermal energy Plant based fuel alternatives
8	By producing electricity for heating, lighting and electrical equipment.
9	They can be used in place of fossil fuels.
10	1. How many vegetables will the family need to grow over a year.
	144 onions, 360 carrots, 300 potatoes.
	2. How much money will they save by growing these vegetables?
	$144/12 \times f2.98 = f35.76$ $360/15 \times f3.90 = f93.60$ $300/5 \times f2.10 = f126.00$
11	Vegetable peelings Grass cuttings Plant prunings Egg shell
	Cardboard Left over vegetables Straw Manure
12	Answers could include:
	Ballpoint pens, DVDs, clothes, lipstick, luggage, motor oil, plastic bottles, shoe polish, shoes, sun glasses, surf
	boards, sweaters toothbrushes, toothpaste, toys.
	Plastic containers Plastic bags Plastic or moulded chairs Mobile phones
4.0	Computers Petrol, diesel Cooking materials
13	It is running out, releases carbon dioxide (a greenhouse gas) as a by-product, etc.
14	Use low energy light bulbs Switch off lights – have timers
	Insulate the walls and roof  Lag all heating and hot water pipes
	Use double glazing Boil the kettle for s <mark>malle</mark> r amounts of water
	Reduce use of power showers  Use thick curtains across doors and windows
	Wear extra clothes to reduce heating Turn heating down by 1 degree
15	Insulate the roof, walls Double glazing
	Double thickness walls Insulation between floors
	Insulation under carpets and floors
16	They contain air spaces which helps to form a gap between warm air spaces and cold air. It prevents easy
	transfer of heat.
17	Crops grown for conversion to bio-energy include traditional crops like oilseed rape and wheat, along with
	willow-coppice, hazel, and some forestry products.
18	4 tonnes for 6 months
	667 kg for 1 month

