

Energy in the Home

	<u>Working towards Mastery (W)</u>	<u>Meeting Mastery (M)</u>	<u>Beyond Mastery (B)</u>
Energy	<ul style="list-style-type: none">- Electricity is generated by a combination of resources which each have advantages and disadvantages.	<ul style="list-style-type: none">- Compare the energy usage and cost of running different home devices.- Explain the advantages and disadvantages of different energy resources.- Represent the energy transfers from a renewable or non-renewable resource to an electrical device in the home.	<ul style="list-style-type: none">- Compare the percentages of energy wasted by renewable energy sources.- Evaluate the social, economic and environmental consequences of using a resource to generate electricity, from data.- Suggest actions a government or communities could take in response to rising energy demand.
Atmosphere	<ul style="list-style-type: none">- Greenhouse gases reduce the amount of energy lost from the Earth through radiation and therefore the temperature has been rising as the concentration of those gases has risen.- Scientists have evidence that global warming caused by human activity is causing changes in climate.	<ul style="list-style-type: none">- Describe how human activities affect the carbon cycle.- Describe how global warming can impact on climate and local weather patterns.	<ul style="list-style-type: none">- Evaluate the implications of a proposal to reduce carbon emissions.- Evaluate claims that human activity is causing global warming or climate change.- Compare the relative effects of human-produced and natural global warming.