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| **P1.4 Generating Electricity Factual Knowledge Tests – Pass Mark = 80%** |
| **Describe how fossil fuels generate electricity – state the energy transfers. (4)**  Fossil fuels are burnt releasing heat.  Heat is used to heat water into steam.  Steam has lots of kinetic energy and turns a turbine.  Turbine turns a generator which generates electricity.  Chemical – heat – kinetic – electrical |
| **Describe how biofuels generate electricity – state the energy transfers.(4)**  Biofuels are burnt releasing heat.  Heat is used to heat water into steam.  Steam has lots of kinetic energy and turns a turbine.  Turbine turns a generator and generate electricity.  Chemical – heat – kinetic - electrical |
| **Describe how solar panels generate electricity – state the energy transfers. (2)**  Solar panels convert sunlight into electricity.  Light - electrical |
| **Describe how wind turbines generate electricity – state the energy transfers. (3)**  The wind turns a turbine.  Turbine turns a generator which generates electricity.  Kinetic - electrical |
| **Describe how HEP stations generate electricity – state the energy transfers.(4)**  Water is stored in a dam.  The water is released down through the dam turning a turbine.  The turbine turns a generator and generates electricity.  GPE – kinetic energy – electrical energy |
| **Describe how geothermal power stations generate electricity – state the energy transfers.(4)**  Water is pumped down underground and is heated by hot rocks and turns into steam.  Steam turns a turbine.  Turbine turns a generator and generates electricity.  Heat – kinetic - electrical |
| **Describe how wave/tidal power stations generate electricity – state the energy transfers. (4)**  Waves compress air which turns a turbine / Tides directly turn a turbine.  Turbine turns a generator and this generates electricity.  Kinetic - electrical |

**Score /25 = %**

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| **P1.4 Generating Electricity Factual Knowledge Tests – Pass Mark = 80%** |
| **Describe how fossil fuels generate electricity – state the energy transfers. (4)** |
| **Describe how biofuels generate electricity – state the energy transfers.(4)** |
| **Describe how solar panels generate electricity – state the energy transfers. (2)** |
| **Describe how wind turbines generate electricity – state the energy transfers. (3)** |
| **Describe how HEP stations generate electricity – state the energy transfers.(4)** |
| **Describe how geothermal power stations generate electricity – state the energy transfers.(4)** |
| **Describe how wave/tidal power stations generate electricity – state the energy transfers. (4)** |

**Score /25 = %**

**EBI – In the space below write out 3 of the ones you got incorrect so that you learn these for your resit.**