Assessment grid Subject: Science Year: 7 Topic/module: Energy			
Advanced	Enrichment/extension – reaching, or part of, next pathway → Features of work may include:	Enrichment/extension – reaching, or part of, next pathway → Features of work may include:	Enrichment/extension Features of work may include:
Secure Students must achieve competence in all statements before being judged 'Secure'	 Secure The student can: Describe energy requirements in different situations State the definition of the conservation of energy Name the energy transfers through solids, liquids, and in air Describe simply what happens in conduction and convection. State some sources and properties of infrared radiation State one advantage and one disadvantage of fossil fuels. State the definitions of energy and power State how work is calculated 	 Secure The student can: Compare the energy in food and fuels with the energy needed for different activities. Explain what brings about transfers in energy Describe what happens when you heat up solids, liquids, and gases Explain what is meant by equilibrium Describe how an insulator can reduce energy transfer. Explain how energy is transferred by radiation Describe how electricity is generated in a power station Describe the link between power, fuel use, and cost of using domestic appliances Calculate work done Apply the conservation of energy to simple machines 	 Secure The student can: Calculate energy requirements for various situations. Account for energy dissipation during transfers Explain, in terms of particles, how energy is transferred. Give examples of equilibrium Explain why certain materials are good insulators Explain how thermal equilibrium can be established Explain how a range of resources generate electricity Calculate and compare energy costs in different scenarios Explain how conservation of energy applies in one example.
Developing	Mostly secure – one or more gaps For example:	Mostly secure – one or more gaps For example:	Mostly secure – one or more gaps For example:
Beginning	Significant gaps	Significant gaps	Significant gaps