Name: Class:

Core Technical Principles: Energy Generation and Storage	Red	Amber	Green
E1 I can understand how energy is generated and stored			
E2 I can know how energy is used as the basis for the selection of products and power systems			

Core Technical Principles: Developments in New Materials

NM1 I can be aware of developments in modern materials			
NM2 I can be aware of developments in smart materials			
NM3 I can be aware of developments in composite materials			
NM4 I can be aware of developments in technical textiles			

Core Technical Principles: Mechanical Devices

M1 I can know and understand the different types of mechanical devices and the movements they produce			
M2 I can describe the different types of linkages, including bell cranks and push/pull			
M3 I can describe the different types of rotary systems, including CAMs and followers, simple gear trains, pulleys and belts.			
M4 I can explain the practical applications of devices and methods to change the magnitude and direction of force.			
M5 I can explain the action of forces and how levers and gears transmit and transform the effects of forces.			
M6 I can use arithmetic and numerical computation in relation to the movement of force, including ratios.			