GCSF Science Fold & Solve	– Enerav Stores & Transfers	Answers – Fold this over!
Fold the answers and work through the questions	below.	AO1 1. Chemical/Gravitation al/Elastic/Magnetic/Ki
 List 2 examples of stores of energy. 	 The total power input to the leaf blower is 750 W. The useful power output of the leaf blower is 360 W. Calculate the efficiency of the leaf blower. 	netic/ 2. Heat/Light/Sound/Kine tic/Electrical 3. Chemical/Kinetic 4. Fan/Drill/Washing Machine
 State 2 energy transfers. As the cyclist accelerates, the energy store in the cyclist's body decreases and the energy of the cyclist increases. 	 The mass of the student is 50.0 kg. The gravitational field strength is 9.8 N / kg. Calculate the change in gravitational potential energy from the position where the student jumps to the point 20.0 m below. 	AO2 1. 48% or 0.48 2. E _p = 50 × 9.8 × 20 9800 (J) AO3
Chemical ElasticGravitationalKinetic4.Three more of the appliances are also designed to transfer electrical energy to kinetic energy. Which three? Draw a ring around each correct appliance.Image: Image: Ima	A03	 Velocity just after bounce is less than just before bounce The height at the top of the bounce is less than the height from which it was dropped So the ball has lost energy
Washing machine Toaster Television	1. When the ball hits the ground, energy is transferred from the ball to the Earth. Explain how the data in the graph above shows this energy transfer.	 Correct reference to (loss of) ke or (reduced) gpe Total energy of ball and Earth / ground is constant