## CP3 Davision Mat

CP3 Revision Mat	Sankey Diagrams:	Keeping Warm:
Energy Stores and transfers		What does thermal conductivity mean?
Complete the table summarising types of energy and examples	What is the equation for calculating the efficiency of an object?	
What does the law of conservation of energy state?	Calculate the efficiency for the above Sankey	State a material that has poor thermal conductivity.
	diagram.	State a material that has high thermal conductivity.
What are the energy transfers in a battery torch?	What is efficiency?	Describe how energy is transferred by heating for the following processes:
What are the energy transfers when a ball is thrown upwards into the air and then falls back down?	What happens to wasted energy?	· Conduction
	How can you reduce the amount of wasted energy on an engine?	· Convection
		• Radiation
		Explain ways in which walls can be built to keep a house warmer

Stored energies:	Renewable and Non-renewable resources
What is the equation to calculate GPE?  Don't forget the units.	What is meant by the terms renewable and non-renewable?
Draw a triangle to change the subject	Complete the table stating examples of renewable and non-renewable resources
Calculate the GPE when a 30kg object is lifted 2m high on Earth.	What are the disadvantages of using fossil fuels?
	What are the disadvantages of using nuclear energy?
A 4kg box stores 400J of GPE when it is lifted on Earth (10N/kg). Calculate how high it was lifted.	What are the disadvantages of wind and solar energy?
What is the equation to calculate KE? Don't forget the units	Bio-fuels are said to be carbon neutral. Explain what this means.
Draw a triangle to change the subject	
A 50kg girl is running at 2m/s. Calculate the KE.	