	Figure 4
06.1	Jade compresses the spring of her toy as low as she can. Then, she lets go. The toy jumps in the air and reaches its highest point before falling back down.
	Complete the sentences to describe the energy changes.
	Use answers from the box.
	[4 marks]
	elastic potential kinetic has emptied is full thermal gravitational potential sound
	When the spring is fully compressed the elastic potential energy store
	When the toy has reached its highest point the energy store is full and the energy store has emptied.
	Some of the initial energy has increased the energy store associated with the surroundings.
06.2	The spring can be compressed by 3 cm.
	The spring constant of the spring in the toy is 70 N/m.
	Choose the correct equation from the Physics Formula Sheet to calculate the initial energy stored by the spring.
	[4 marks]

Jade investigates how high her spring toy jumps when released.

06

Initial energy stored = _____ J