2 The photograph shows a child bouncing on a trampoline.

(a) The box lists some types of energy.

chemical	elastic	gravitational	kinetic	thermal

The passage describes the process of bouncing on the trampoline.

Use words from the box to complete the passage.

Each word may be used once, more than once or not at all.

(4)

As the child falls, his ..... energy

is mostly transferred to ..... energy.

When the child hits the trampoline, his ..... energy

is transferred to ..... energy.

(b) Trampolines have springs that stretch and compress.

A student investigates a spring to see if it obeys Hooke's law.

She measures the extension of a spring for a range of different stretching forces.

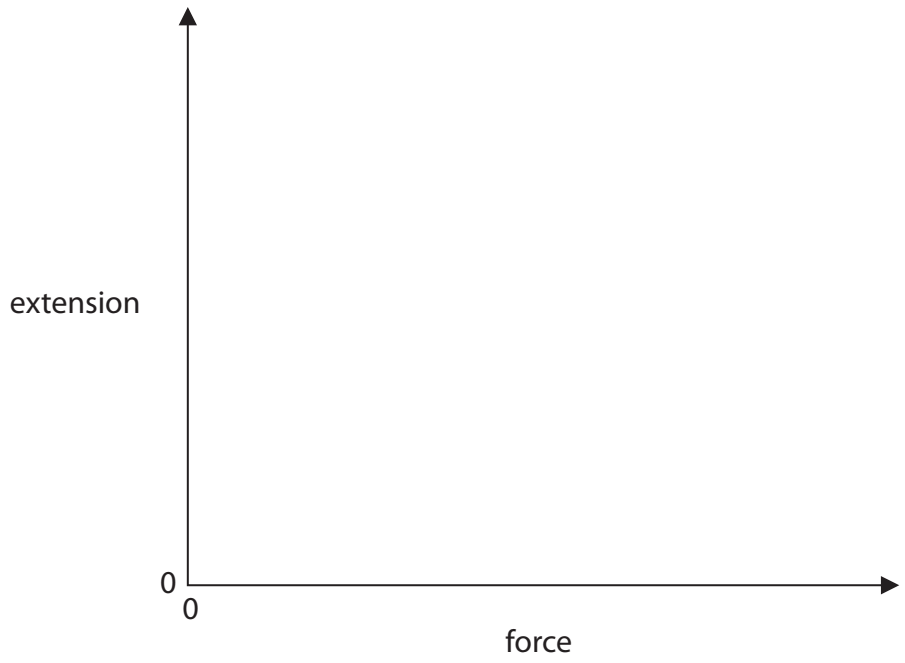
(i) Describe how the student could measure the extension of the spring.

(3)

(ii) The student finds that the spring does obey Hooke's law.

Sketch a graph of her results on the axes.

(2)



(Total for Question 2 = 9 marks)