

- 3 (a) State what is meant by the internal energy of a system.

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[2]

- (b) Use the first law of thermodynamics to explain what happens to the internal energy:

- (i) of a spring when it is stretched at constant temperature within its elastic limit

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[3]

- (ii) of a sample of water when it evaporates from a rain puddle on a hot day.

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[3]