

Answer ALL questions.

- 1 (a) The boxes give some situations and some energy stores.

Draw one straight line from each situation to the energy store that decreases for that situation.

The first one has been done for you.

(4)

Situation	Energy store
a beaker of water cooling down	elastic
a car moving horizontally and slowing down	kinetic
a ball falling towards the ground	thermal
a nucleus splitting due to fission	nuclear
a stretched rubber band decreasing in length	gravitational

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(b) Energy is transferred when a filament lamp is connected to a battery.

(i) Which method of energy transfer takes place between the battery and the lamp? (1)

- ☐ **A** electrical
- ☐ **B** heating
- ☐ **C** mechanical
- ☐ **D** radiation

(ii) Which method of energy transfer takes place between the lamp and the surroundings? (1)

- ☐ **A** electrical
- ☐ **B** light radiation
- ☐ **C** mechanical
- ☐ **D** sound radiation

(Total for Question 1 = 6 marks)

