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Topic 1 — Energy

Page 1 — Energy Stores and Systems

- 1.1 An object or a group of objects. *[1 mark]*
1.2 Energy is transferred from: apple's gravitational potential energy store / apple's kinetic energy store *[1 mark]*
Energy is transferred to: apple's kinetic energy store / thermal energy store of the apple and surroundings (as the apple hits the ground) *[1 mark]*
1.3 E.g. work being done by the current in the circuit *[1 mark]*.
2 Level 0: There is no relevant information. *[No marks]*
Level 1: There is a brief explanation of one of the energy transfers, with no mention of the forces doing the work. *[1 to 2 marks]*
Level 2: There is a clear description of the energy transfers that take place, as well as the forces that are doing the work. *[3 to 4 marks]*
Here are some points your answer may include:
Gravitational force does work on the bike.
This causes energy to be transferred from the gravitational potential energy store of the bicycle to its kinetic energy store.
Friction force does work between the brake pads and the wheels.
This causes energy to be transferred from the bicycle's kinetic energy store to the thermal energy store of the brake pads.

Page 2 — Kinetic and Potential Energy Stores

- 1 $E_k = \frac{1}{2}mv^2 = \frac{1}{2} \times 20 \times 0.01^2$ *[1 mark]* = 0.001 J *[1 mark]*
2 Energy lost from the g.p.e. store = energy gained in the kinetic energy store *[1 mark]*
 $E_p = mgh = 0.1 \times 9.8 \times 0.45 = 0.441$ J *[1 mark]*
 $E_k = \frac{1}{2}mv^2$
So $v = \sqrt{(2 \times E_k) / m} = \sqrt{(2 \times 0.441) / 0.1}$ *[1 mark]*
= 2.969... *[1 mark]* = 3 m/s (to 1 s.f.) *[1 mark]*
3.1 $E_k = \frac{1}{2}mv^2 = \frac{1}{2} \times 144 \times 0.10^2$ *[1 mark]* = 0.72 J
It is assumed that all of the energy stored in the elastic potential energy store of the elastic band is transferred to the kinetic energy store of the ball bearing ($E_e = E_k$)
so energy = 0.72 J *[1 mark]*
3.2 Speed of child A's ball bearing:
 $E_k = \frac{1}{2}mv^2 = 0.72$ J
so $v^2 = (2 \times 0.72) / 0.0009 = 144$ *[1 mark]*

$v = 12$ m/s so child B's ball bearing speed is:
 2×12 m/s = 24 m/s *[1 mark]*
 $E_k = \frac{1}{2}mv^2 = \frac{1}{2} \times 0.0100 \times 24^2 = 2.88$ J *[1 mark]*
 $E_k = \frac{1}{2}mv^2 = 2.88$ J
so $k = (2 \times 2.88) / 0.10^2$ *[1 mark]*
= 576 = 580 N/m (to 2 s.f.) *[1 mark]*

Page 3 — Specific Heat Capacity

Warm-up

The energy needed to raise 1 kg of a substance by 1 °C.

- 1.1 $\Delta E = mc\Delta\theta$ so $c = \Delta E / m\Delta\theta$ *[1 mark]*
= 15 000 / (0.3 × 25) *[1 mark]*

Specific heat capacity = 2000 *[1 mark]*

- 1.2 The current flowing through the immersion heater does work *[1 mark]*, transferring energy electrically *[1 mark]* to the thermal energy store of the immersion heater *[1 mark]*. It is then transferred from the thermal energy store of the immersion heater to the thermal energy store of the liquid *[1 mark]*.

Pages 4-5 — Conservation of Energy and Power

Warm-up

Power is the rate of energy transfer or work done.

It is measured in watts.

- 1 E.g. energy transferred to a less useful energy store *[1 mark]*.
2.1 Energy can be created.
Energy can be destroyed.
[1 mark for both correct answers, otherwise no marks if more than two boxes have been ticked]
2.2 Useful energy store: e.g. kinetic energy store (of shaver) *[1 mark]*
Wasted energy store: e.g. thermal energy store (of shaver or surroundings) *[1 mark]*
2.3 E.g. it would reduce the battery life of the battery / it would make the battery go flat quicker / it would mean the battery must be recharged more often *[1 mark]*.
3.1 $P = W / t$ *[1 mark]*
3.2 $W = Pt = 35 \times 600$ *[1 mark]* = 21 000 J *[1 mark]*
3.3 $P = E / t$
so $t = E / P = 16\ 800 / 35$ *[1 mark]* = 480 s *[1 mark]*
4.1 It will decrease the time *[1 mark]* because more energy is being transferred to the kinetic energy store of the car per second *[1 mark]* so the car speeds up more quickly *[1 mark]*.

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S Ben Porath



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