



Energy

Task A: All objects have energy

State whether each object has energy or has no energy.

For each object that has energy, explain why it has energy.

1) A person taking a nap



...has energy

because the human body contains chemicals that can react and has a temperature.

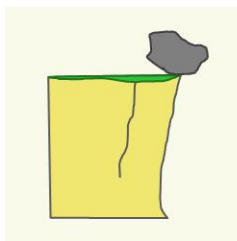
2) A packet of crisps



...has energy

because crisps contain chemicals that can react and has a temperature.

3) A rock, balanced at the top of a cliff



...has energy

because it is high up and has a temperature.

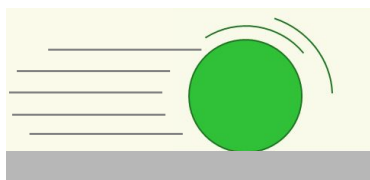
4) A person resting after a long run



...has energy

because the human body contains chemicals that can react and has a temperature.

5) A ball rolling along



...has energy

because it is moving and has a temperature.



Task B: Energy stores

1) A moving steam train



The steam train has...

- *a thermal store of energy because of the (high) temperatures of the water, steam and parts of the train.*
- *a chemical store of energy because the fuel (coal) contains chemicals that can react.*
- *a kinetic store of energy because it is moving.*

2) A child on a 'bouncer' ride. At the moment shown the child is being pulled upwards.



The child and ropes together have...

- *a gravitational store of energy because they are raised up.*
- *a thermal store of energy because of their temperatures.*
- *an elastic store of energy because the ropes are stretched.*
- *a chemical store of energy because the child's body contains chemicals that can react.*
- *a kinetic store of energy because they are moving.*

