

Steam engines

This task is about energy transformation.



- a) Steam engines transfer the energy of boiling water into the energy of movement. But steam engines are only about 3% efficient. Explain what this statement means.

- b) If the steam generated is producing 1000 joules of energy each second, and the efficiency of the engine is 3%, how much energy would be changed into the energy of movement?

joules per second

- c) Name **three** forms of energy that the other 97% of the energy is transformed into:

1.

2.

3.