

GCSE REVISION BUDDY

Efficiency Worksheet

1. A machine takes in 800J of energy and delivers 600J of useful energy output. Calculate its efficiency.

2. A light bulb takes in 50J of electrical energy and gives out 30J of light energy. Find its efficiency.

3. A motor converts 600J of electrical energy into mechanical energy with an efficiency of 80%. Calculate its useful output.

4. A solar panel receives 4000J of sunlight and converts it into electrical energy with an efficiency of 70%. Determine its useful output.

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5. A motor converts 800J of electrical energy into 600J of mechanical energy. Calculate its efficiency.
6. A wind turbine receives 10,000J of wind energy and converts it into electrical energy with an efficiency of 70%. Determine its useful output.
7. A machine delivers 400J of useful energy output with an efficiency of 80%. Calculate the total input energy.
8. A solar panel produces 2800J of useful electrical energy output with an efficiency of 70%. Determine the total solar energy input.