POLLUTION

Key Revision Facts: GCSE Technology

It's almost impossible to make a product without causing some form of pollution. Businesses have several options to reduce the level of pollution caused by a product. By conducting a **Life Cycle Assessment**, a company can determine how much pollution is being created and plan to reduce the pollution.

Life-cycle assessment

Life-cycle assessment or LCA (also known as life-cycle analysis) is a methodology for assessing environmental impacts associated with all the stages of the life-cycle of a commercial product, process, or service. For instance, in the case of a manufactured product, environmental impacts are assessed from raw material extraction and processing (cradle), through the product's manufacture, distribution, and use, to the recycling or final disposal of the materials composing it (grave).

Global Warming

Global warming is the long-term heating of Earth's climate system observed since the pre-industrial period (between 1850 and 1900) due to human activities, primarily fossil fuel burning, which increases heat-trapping greenhouse gas levels in Earth's atmosphere.

Carbon Footprint

A carbon footprint is the total greenhouse gas emissions caused by an individual, event, organization, service, or product, expressed as carbon dioxide equivalent.

Carbon Neutrality

Carbon neutrality refers to achieving net-zero carbon dioxide emissions. Carbon neutrality can be done by balancing emissions of carbon dioxide with its removal (often through carbon offsetting) or by simply eliminating emissions altogether

Carbon Offsetting

A carbon offset reduces emissions of carbon dioxide or other greenhouse gases made to compensate for emissions caused elsewhere. Offsets are measured in tonnes of carbon dioxide-equivalent (CO2e). Examples of projects that produce carbon offsets include Renewable energy projects, such as building wind farms that replace coal-fired power plants. Energy-efficiency improvements include increasing buildings' insulation to reduce heat loss or using more-efficient vehicles for transportation and planting trees.

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VERSION INFORMATION

Date	Arthur	Comment
17-Jan-2021	Andrew Seaford	Initial release.