

CHEMISTRY — Unit 3

how can chemical processes be designed to optimise efficiency?

Fuels

A fuel is a substance with stored energy that can be released relatively easily for use as heat or power; the stored energy can be chemical or nuclear energy

Joules (symbol J) is the unit used to measure energy

The energy we use is mainly from fossil fuels and we mostly use it for heating, electricity production and transport

The combustion of fuel causes emissions that have a negative impact on the environment

- carbon dioxide is a greenhouse gas that causes enhanced greenhouse effect
- sulphur dioxide causes acid rain which harms through erosion
- nitrogen oxides cause acid rain and respiratory problems
- ozone causes respiratory problems
- particulates are an irritant
- carbon monoxide is a poisonous gas
- organic chemicals can be toxic

Energy transformations occur in the combustion of fuels when chemical energy is transformed into thermal, electrical or mechanical energy

The chemical energy content (also called the energy content or enthalpy) has the symbol H

Unit 3 Chemistry Bellevue School District Organic Chemistry

Guillaume Favre



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The Boston Medical and Surgical Journal ,1916 *Boston Medical and Surgical Journal* ,1916 JAMA ,1914
Journal of the American Medical Association ,1912 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature **Resources in Education** ,1980 American Men of Science ,1949
American Universities and Colleges ,1956 **University Affairs** ,1979 **American Men of Science** ,1970
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Who's Important in Medicine ,1952 *Who's who in Australia* ,2000

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