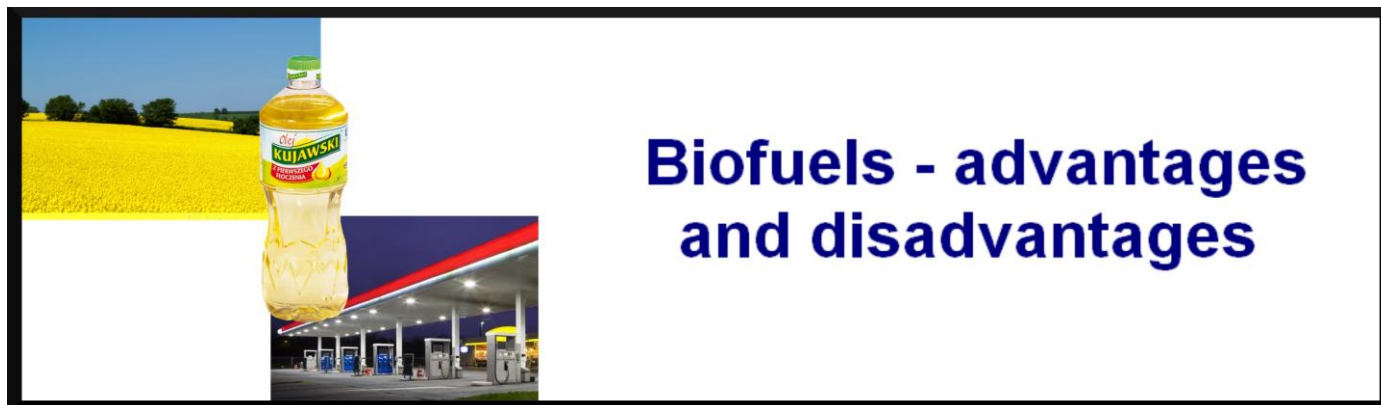


PROFILES IBSE Teaching/Learning Materials - Overview

compiled by the PROFILES Working Group of the Maria Curie-Skłodowska University, Lublin - Poland



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## Abstract

The module shows the problems associated with the use of food substances as fuels. Students will evaluate the usefulness of biofuels derived from vegetable oil and will conduct discussions whether it is appropriate to use vegetable oils as a raw material for obtaining fuel.

**Subject:** Chemistry Grade lead: 3<sup>rd</sup> grade of junior secondary school or 1<sup>st</sup> grade of senior secondary school.

**Curriculum content:** esters, esterification, biofuels, calorific value.

**Kind of activity:** looking for source information, learning by discovery, doing experiments, presenting the results, collaborating in groups. etc.

**Anticipated time:** 5 lessons of 45 minutes

**Overall Objectives/Competencies:** training skills, carrying out reasoning according to scientific experiment, following a given procedure, collaboration in groups, preparation and presentation of results.

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