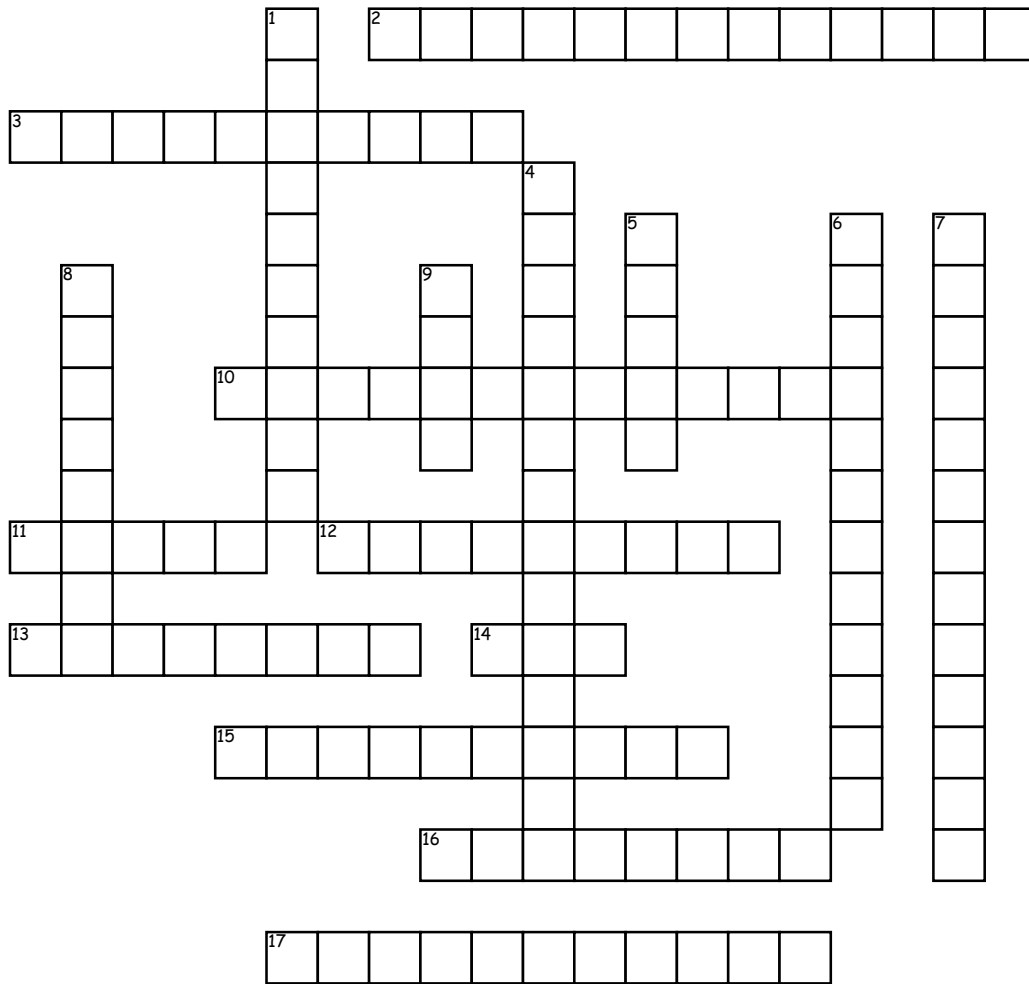


Name: \_\_\_\_\_

# Biodiesel - an alternative fuel



**Across**

2. Gas produced during combustion in the presence of sufficient amounts of oxygen.

3. Physical property that provides a convenient index of the flammability and combustibility

10. Describes eco-friendly fuels that rapidly break down chemically and mechanically

11. The life ....analysis measures the environmental impact or benefits of a product compared to other similar products.

12. Low-emissions diesel substitute made from renewable resources and waste lipids

13. Structure of organic compound with no branching

14. Characteristics of the ....are determined by the nature of the fatty acids attached to the glycerin.

15. chemical added to soil to improve nutrient content of the soil

16. safe substance that cannot cause any harm

17. Physical process during which water liquid turns into water vapour

**Down**

1. Substances that compromise the quality of a product

4. Transforming triglyceride into fatty acid alkyl esters, in the presence of an alcohol

5. Raw state of materials

6. Oil of plant origin

7. A gas that contributes to the increase in temperature of the atmosphere by absorbing infrared radiation in the atmosphere.

8. Substance that speeds up a chemical reaction

9. Oil crops such as rape..... serve as suitable source for biodiesel

**Word Bank**

esterification  
biodegradable  
biodiesel  
catalyst

fertiliser  
crude  
straight  
greenhouse gas

evaporation  
carbon dioxide  
seed

fat  
vegetable oil  
cycle

non-toxic  
impurities  
flash point