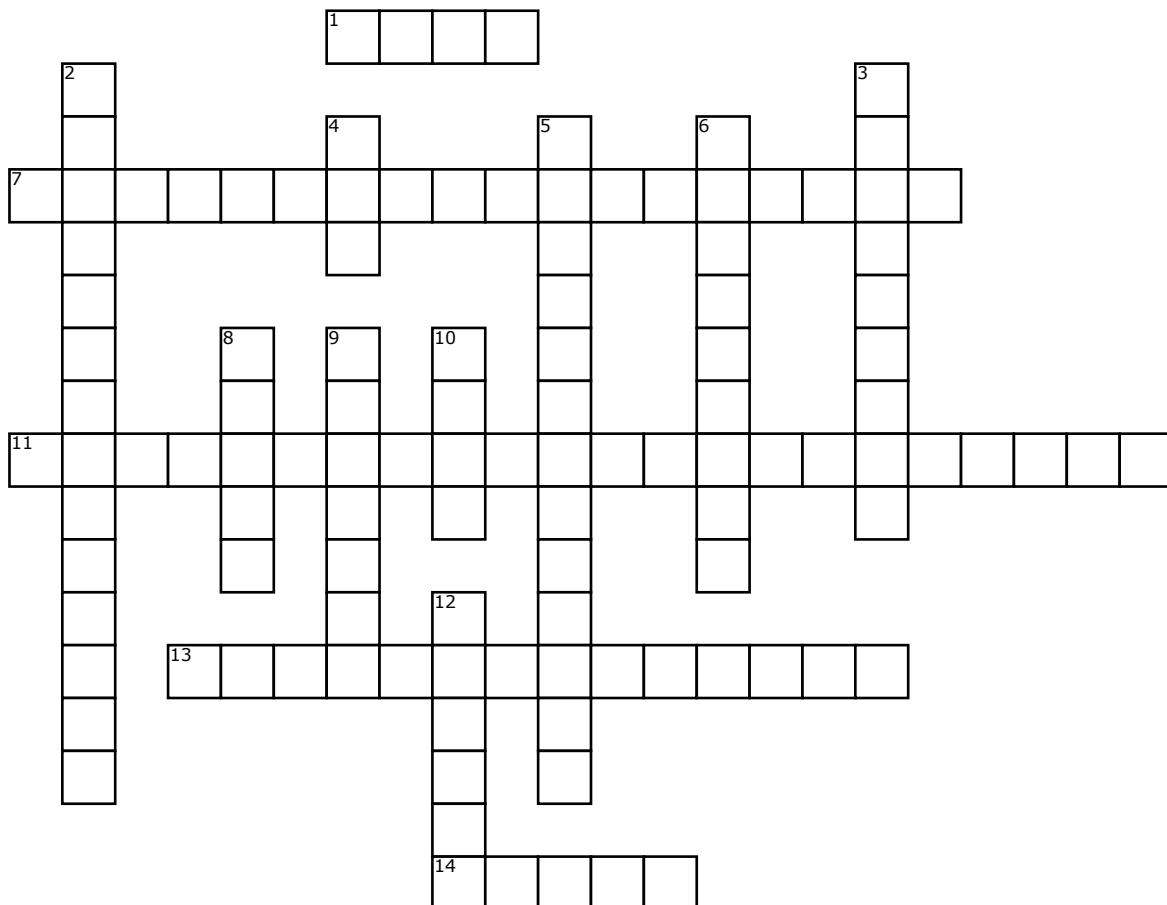


# Alkanes, Alkenes, Alcohols and Carboxylic Acids.



## **Across**

**1.** Besides a solvent, what is another use for ethanol?

**7.** What other reagent is needed when heating ethanol with sulphur to form ethanoic acid?

**11.** How is ethanol separated when forming ethanol using fermentation?

**13.** What is the process called when you react a carboxylic acid and an alcohol?

**14.** An acid gas of hydrogen chloride forms when you react an alkane and chlorine in the presence of what?

## **Down**

**2.** What catalyst is needed to form ethanol using steam?

**3.** Carboxylic acid + metal

**4.** What do carboxylic acids end in?

**5.** What is one of the products of burning ethanol?

**6.** An alkane is a \_\_\_\_\_ hydrocarbon.

**8.** The product of carboxylic acids and hydroxides?

**9.** How do you test for an alkene?

**10.** Ethanoic acid is a \_\_\_\_\_ acid

**12.** What catalyst is needed to form an alkane from the reaction of an alkene and hydrogen?