

Complete the table to show the benefits and problems of combustion. Write the letters in the table below.

- a) We use it to heat our homes.
- b) It can cause acid rain.
- c) It sometimes produces carbon dioxide.
- d) We can use it to cook.
- e) Coal powered stations use it to produce electricity.
- f) Combustion is used to power vehicles.
- g) It produces particles that pollute the air.
- h) It can cause global warming.

Benefits of combustion	Problems caused by combustion

Complete the table:

Type of combustion	Problems caused
Burning petrol or diesel	<ol style="list-style-type: none"><li>1. It produces carbon dioxide, which contributes to global warming.</li><li>2. _____ _____</li></ol>
Burning coal	<ol style="list-style-type: none"><li>1. _____</li><li>2. _____ _____</li></ol>

Choose the correct option:

Rusting is a form of oxidation / combustion . It takes place when iron is exposed to water / air . The iron atoms slowly lose electrons / neutrons to the oxygen atoms in the air. The properties of the iron change as it rusts. It changes colour from blue / grey to an orange red colour. It also becomes less resistant and more durable / brittle .

Cars are made of iron. When they are new, a layer of paint / oil covers the iron and protects it from the air. But if this layer is damaged, the iron is exposed and rusting / fermentation can take place.

Are these sentences TRUE or FALSE? Correct the false sentences:

When the soft, interior parts of fruit are exposed to air, they oxidise.

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During oxidation, the fruit gains electrons from oxygen in the air.

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The skin of the fruit protects the interior parts from oxidation.

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All fruit will oxidise when it is exposed to the air.

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Unscramble the words. Then, use them to complete the text below.

aettfnnerimo

iraecabt

ayset

habtroyeadscr

\_\_\_\_\_ is the process by which cheese, yoghurts, beer and wine are made. Cheese and yoghurts are made when \_\_\_\_\_ convert the \_\_\_\_\_ in milk into lactic acid. Alcoholic drinks, like beer and wine, are made when \_\_\_\_\_ converts sugar into alcohol.

## Oxidation, fermentation or combustion?

- a) When we cut an apple into pieces, it begins to turn brown.  
\_\_\_\_\_
- b) When we light a candle, it produces light and heat.  
\_\_\_\_\_
- c) Old cars often go rusty and have orange or red areas.  
\_\_\_\_\_
- d) We use yeast to make bread, cakes, wine and beer.  
\_\_\_\_\_
- e) Bacteria convert the carbohydrates in milk into lactic acid.  
\_\_\_\_\_
- f) In many power stations, coal is burned to produce electricity. \_\_\_\_\_