

Read the following description of Mr Meldrew's day and write down the **chemical** changes that are mentioned. **CARE:** there are also some **physical** changes!



At 7.00am the alarm clock rang. Mr Meldrew staggered out of bed and into the bathroom. He washed his face and cleaned his teeth, using toothpaste to neutralise plaque acid. When he got downstairs he struck a match and lit the gas. He put on the kettle and whilst waiting for it to boil he went to the fridge. Mr Meldrew was annoyed to find that the milk had gone sour so he had to do without. When the water had boiled he brewed his tea using the hot water to dissolve out chemicals from the tea. Some bacon in the fridge smelt a little strange. He thought that bacteria had acted on it but he decided to cook it anyway.

Mr Meldrew's day went from bad to worse. When he got out to his car it would not start. Opening the bonnet he poked around. He noticed lots of rust around the battery compartment and a loose terminal. He tightened this up and got his shirt covered in grease but fortunately the car then started and he drove off.

When he returned home that night he discovered that he had used too much yeast to ferment his wine. The container had exploded throwing wine all over the airing cupboard. He put the stained table cloths and towels in a bucket of bleach to remove the stains. Unfortunately, he should not have eaten his rotten bacon that morning because he was now suffering from stomach pains. He dissolved some stomach powder in water, drank it and left it to work on his stomach acid. He was so tired that he nearly fell asleep in a chair near the fire and the chocolate that was in his pocket melted. As it ran down his leg he exclaimed "I don't believe it! On top of this I've had sour milk, a faulty car, exploding wine and an upset stomach. Tomorrow things can only get better."

Mark scheme

You will receive 1 mark for each of the 10 correct chemical changes you find.

Maximum = 10 marks