



CHAPTER 1

Chemical Reactions and Equations



Consider the following situations of daily life and think what happens.

- water is left in an open container during summer.
- iron tools/benches/parts/road is left exposed to humid atmosphere.
- grapes get fermented.
- food is cooked.
- food gets digested in our body.
- we breathe.

In all the above situations, the nature and the identity of the initial substances have somewhat changed. We have already learnt about physical and chemical changes of matter in our previous classes. Whenever a chemical change occurs, we can say that a chemical reaction has taken place.

You may perhaps be wondering us to what is actually meant by a chemical reaction. How do we come to know that a chemical reaction has taken place? Let us perform some activities to find the answer to these questions.

Activity 1.1

OBJECTIVE This Activity needs the teacher's assistance. It would be better if students wear suitable eyeglasses.

- Cut a magnesium ribbon about 3-4 cm long by rubbing it with sandpaper.
- Heat it with a pair of tongs, burn it using a spirit lamp or burner and collect the ash in a watch glass as shown in Fig. 1.1. Burn the magnesium ribbon keeping it away as far as possible from your eyes.
- What do you observe?

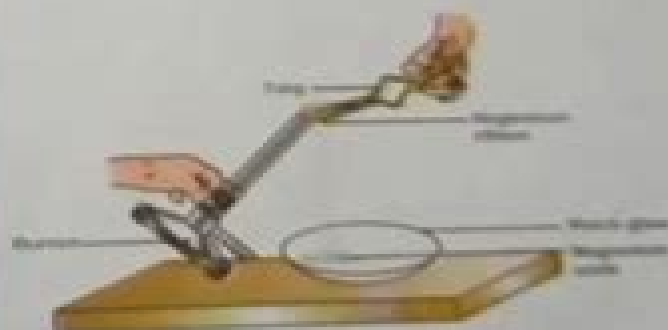


Figure 1.1
Burning of a magnesium ribbon in air and collection of magnesium ash in a watch glass.

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web zog and the flying doctors is a film directed by sean mullen with animation year 2020 original title zog and the flying doctors synopsis pearl and gadabout are now a flying doctor trio caring for creatures including a mermaid a unicorn and a sneezy lion

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web zog pearl and gadabout are now a flying doctor trio caring for all kinds of creatures when bad weather forces them to land at the palace pearl is locked up by her uncle the king so zog and gadabout try to set her free this program was published 3 years ago

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web zog and the flying doctors is another book from julia donaldson given the animated treatment princess pearl is a doctor who decides to forsake royal duties and look after the needs of the animals she zog and sir gadabout fly about seek out animals in distress

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web available on bbc iplayer prime video itunes pearl and gadabout are now a flying doctor trio caring for creatures including a mermaid a unicorn and a sneezy lion however when bad weather forces them to land at the palace pearl is locked up by her uncle the king animation 2020 25 min

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bbc one and magic light announce zog and the flying doctors - Sep 25 2022

web nov 12 2019 the special has been acquired by charlotte moore bbc director of content and tommy bulfin commissioning editor bbc drama the first zog film was a roaring success from christmas 2018 and has

meet the cast of zog and the flying doctors radio times - May 22 2022

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one s christmas special zog and the flying doctors bbc by

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web zog and the flying doctors the sequel titled zog and the flying doctors was published by alison green books on 7 september 2016 on 12 november 2019 it was announced that magic light pictures and bbc one would team up once again on julia donaldson and axel scheffler s zog and the flying doctors for christmas day 2020 at 2 35pm with music

zog and the flying doctors movie review common sense media - Jul 24 2022

web jun 2 2023 in zog and the flying doctors princess pearl voiced by patsy ferran gadabout daniel ings and zog hugh skinner spend their days flying around helping those in need but then pearl is locked up in a tower by the king rob brydon for not behaving like a princess

zog and the flying doctors by julia donaldson goodreads - Nov 15 2021

web jan 1 2017 fun picture book story about three flying doctors a dragon zog and princess pearl they fly about the forest attending to hurt animals mermaids unicorns and lions the princess is locked up until she finds a cure for the king who is ill silly fantasy story about animals kings castles forests and a dragon with a horn

zog and the flying doctors trailer zogofficial youtube - Jun 03 2023

web may 17 2021 zog is the official youtube channel for all things zog and zog and the flying doctors featuring exclusive clips created especially for children click here

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web zog is back for another adventure with his friends gadabout and pearl also known as the flying doctors they soar through the skies and cure all ki apple tv

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