

Safety instructions

1 Read the labels. Which chemical:

- 1 needs a cool temperature?
- 2 can't be used near water?
- 3 needs safety glasses?
- 4 is poisonous?
- 5 needs a container with a tight lid?
- 6 catches fire and burns easily?
- 7 is dangerous for young people?
- 8 needs open doors and windows?

2 Listen to different people talking about these chemicals. Match each one to the correct label.

3 Listen again and complete the sentences.

- 1 You put them on right away.
- 2 lick your fingers and drink it.
- 3 You open all the windows and doors when you use it.
- 4 This box get wet. Keep it away from water.
- 5 light matches or cigarettes near this.
- 6 the lid is very secure.
- 7 it in a cool place.
- 8 them to touch this box.

4 Which phrases have similar meanings?

- 1 You have to do it.
- 2 Don't do it.
- 3 You must not do it.
- 4 You must do it.
- 5 Never do it.

5 Give these instructions in different ways. Use the phrases in 4.

Example

Keep your goggles on. – You have to keep your goggles on. You must keep your goggles on.
Never drink this. – You must not drink this. Don't drink this.

- 1 Keep your goggles on.
- 2 Never drink this.
- 3 Keep this box dry.
- 4 Make sure all the windows are open.
- 5 Don't allow visitors in here.
- 6 Make sure the lid is secure.
- 7 Never leave this bottle in a hot room.
- 8 Don't allow children to touch this box.



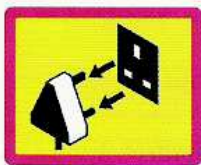
6 Read some more safety instructions. Match the instructions to the symbols.



a



b



c

- 1** Maintain the saw in top condition. Lubricate moving parts and sharpen the blades.
- 2** Check electric wires and cables for signs of wear.
- 3** Use a three-pin earthed* plug and do not operate the saw in wet conditions.
- 4** Disconnect the saw from the power supply before changing the blade.
- 5** Always use safety glasses when operating the saw.
- 6** Keep the safety guard in position at all times.
- 7** Never stand on the saw and don't overreach.
- 8** Keep children and visitors away from the saw.
- 9** Do not use the saw when under the influence of alcohol or medication.



d



e



f



g



h



i

earthed **BrE** – grounded **AmE**

7 Here are some similar instructions. Complete the instructions with words from the list.

keep oil allow remove unplug
operate never make sure wear

- 1 Maintain the saw in top condition.Oil... moving parts and sharpen the blades.
- 2 electric wires and cables are in good condition.
- 3 Use an earthed plug and use the saw in wet conditions.
- 4 the saw before changing the blade.
- 5 goggles at all times when using the saw.
- 6 Never the safety guard.
- 7 your feet on the floor and maintain good balance.
- 8 Do not children or visitors near the saw.
- 9 Do not the saw after drinking or taking medicine.

8 Work in groups.

- 1 Think of more dangerous things that need safety instructions. Make a list.

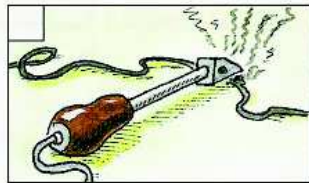


- 2 Write some safety instructions for the things on your list.
- 3 Read your instructions to the class.

Accidents

1 Match the instructions to the pictures. Write the numbers in the boxes.

- 1 Take a break.
- 2 Don't bend it.
- 3 Look where you're going.
- 4 Don't cut the string.
- 5 Don't leave that there.
- 6 Stop pumping.



2 What will happen if these people don't follow the instructions?

Example

He'll fall asleep at the wheel.

The glass will break.

will

We use will to talk about the future. The contraction is 'll.

You'll burst the tyre.

It'll fall on your head.

3 Work with a partner. Take turns to be **A** and **B**.
A – give an instruction from 1. **B** – question it.

Examples

A Take a break.

A Don't bend it!

B Why?

B Why not?

A You'll fall asleep.

A It'll break.

4 Listen to some people talking about an accident. What happened?

5 Listen again and complete the sentences.

1 I an accident.

2 I tripped and my leg.

3 you be OK?

4 Who them there?

5 I them there yesterday and about them.

6 I do it again.

6 Read the sentences in 5 again.

1 Which two sentences are about the future?

2 What's the negative form of will?

3 Which four sentences are about the past?

Past Simple: irregular verbs

Past Simple forms of regular verbs end -ed.
trip → I tripped.

But many Past Simple verbs are irregular.

have → I had an accident. leave → I left it there.

See page 117 for a list of irregular verbs.

7 Complete this report about the accident.
Use the Past Simple form of the verbs in brackets ().

Date of accident: 9 June

Time: 10.15 a.m.

Place: The storeroom in the machine shop

Employee: Fernando Sanchez

Description: On 8 June, the employee took.¹ (take) ten 1.5 m steel pipes to the storeroom. He² (put) eight pipes on the racks, but he didn't finish the job. The telephone³ (ring) and he⁴ (stop) to answer it. The next morning, he⁵ (forget) two pipes were still on the floor and he⁶ (trip) over them. They⁷ (be) sharp and they⁸ (cut) his leg. The cut was 40 mm long and it⁹ (need) a bandage. The employee¹⁰ (go) home after the accident but he¹¹ (come) back to work on 10 June. Luckily, he¹² (be) OK.

Conversions

1 Do you ever use imperial measurements (for example, inches, feet, pounds)? Who uses them?

2 Read about the Mars Climate Orbiter.

- 1 What was it designed to do?
- 2 What went well?
- 3 What went badly?
- 4 What height did it need to be?
- 5 What height was it?
- 6 What was the communication problem?

The Mars Climate Orbiter was designed to orbit Mars. Its launch on 3 January 1999 went well and so did its trip to Mars. But its landing went badly on 9 September 1999, and something went wrong. NASA lost communication with the Orbiter and it went missing. It needed to be at a height of 85 kilometres (53 miles) or more above the surface of Mars. It was only 60 kilometres (37.5 miles) high. There was a communication problem between two teams of scientists. One team used imperial measurements and the other used metric.



3 Look at these measurements. Which are imperial and which are metric? How do you say them?

- | | |
|-------------------|-----------------------|
| 1 km/h | 9 tonne |
| 2 yd | 10 in ² |
| 3 °F | 11 gal |
| 4 mm | 12 kW/h |
| 5 lbs | 13 psi |
| 6 m ² | 14 °C |
| 7 ft ³ | 15 kg/cm ² |
| 8 kJ | 16 mph |

4 Which are units of:

- | | |
|-----------|----------------|
| 1 speed? | 5 temperature? |
| 2 weight? | 6 volume? |
| 3 length? | 7 pressure? |
| 4 area? | 8 energy? |

5  Listen and complete the conversions.

- 1 100 mph = km/sec
- 2 1 tonne = lbs
- 3 1 yd = mm
- 4 1 m² = in²
- 5 1 ft³ = gal
- 6 1 psi = kg/m²
- 7 100 kJ = kWh
- 8 0°F = °C

6 Work with a partner.

A – look at the information below.

B – look at the information in file 15 on page 106.

A

Ask your partner questions and write the figures. Answer your partner's questions.

Example

What's 400 kilometres per second in miles per hour?

- 1 400 km/sec = mph
- 2 1,000 lb = 0.4536 tonnes
- 3 1,000,000 mm = yards
- 4 100,000 in² = 64.52 m²
- 5 100°C = °F
- 6 1 British gal = 0.1605ft³
- 7 100 kg/cm² = psi
- 8 1 kWh = 3.6 kJ