

# AS LEVEL **CHEMISTRY B (SALTERS)**

## Lesson Element

### Element cards

#### Introduction

This resource contains a template to produce 24 element cards that can be used in lesson activities. Two suggestions for activities related to properties of elements and periodic trends are provided. These activities would be suitable for use during teaching of the module *Elements of life*. Alternatively, the activities could be run during teaching of *The ozone story*, to incorporate ideas about electronegativity and review knowledge and understanding from earlier in the course.

#### Learning outcomes

This resource relates to the following specification learning outcomes:

EL(a), EL(m), EL(n), EL(o), EL(q), ES(h), ES(i), OZ(a)

### ***Instructions***

Print/copy the card template page of this resource onto the required number of sheets of card. Cut out the individual squares from each sheet and mix them up.

#### ***Periodicity 20 questions***

Group learners in pairs and give a set of cards to each pair. Each learner takes one card without showing it to their partner. One more element card is turned over in the middle for both to see.

Learners take it in turns to try and work out which element the other has by asking *comparative questions only*. For example, if the element in the middle is silicon, learners can ask questions such as:

- Does it have a higher melting point than silicon?
- Does it have a higher first ionisation energy than silicon?
- Is it more electronegative than silicon?

The first player to correctly work out their opponent's element wins.



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## ***Element 'Guess Who'***

This is a slightly simpler game than the one above. One learner takes a card without showing it to their partner. The other learner asks questions to which the other student can only answer *yes* or *no*, such as:

- Is it a metal?
- Is it a gas?
- Is it in Group 2?

This continues until the second learner guesses the element correctly, after which the learners can switch roles.



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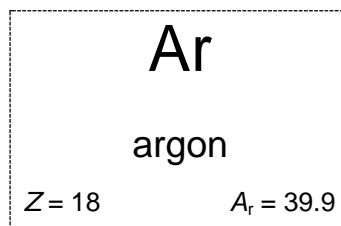
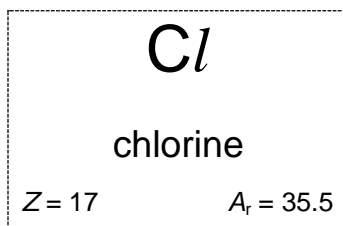
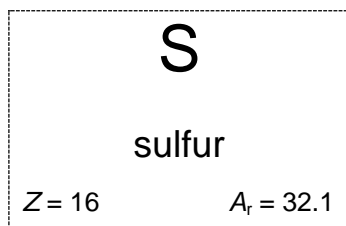
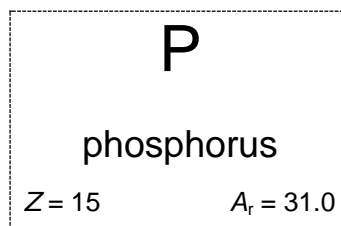
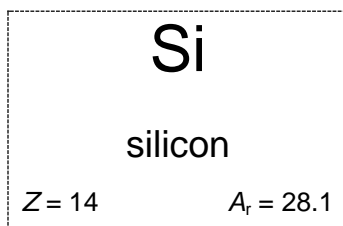
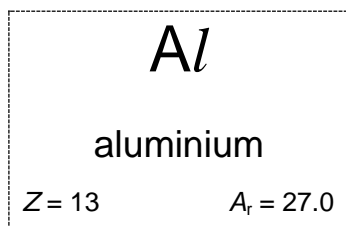
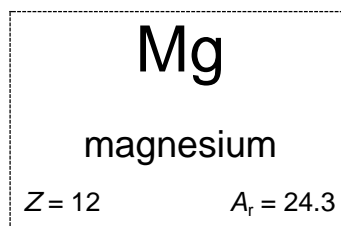
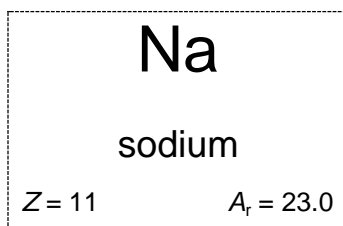
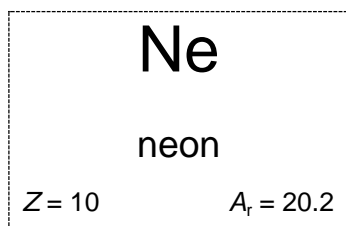
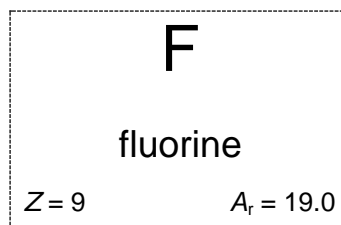
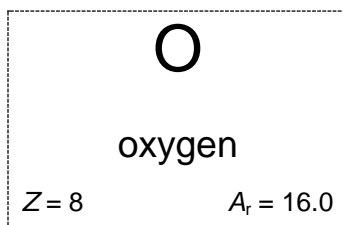
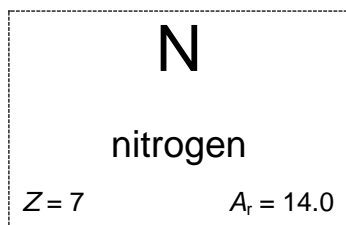
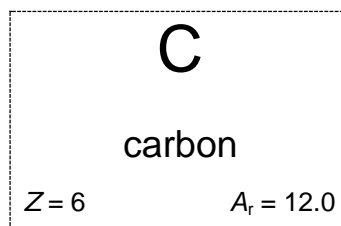
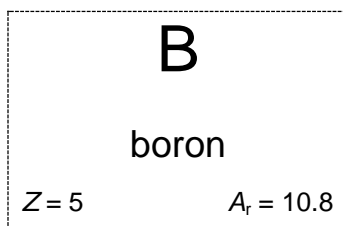
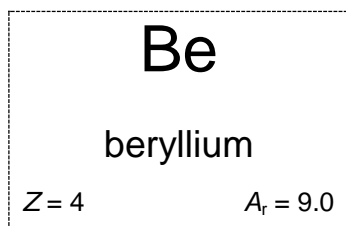
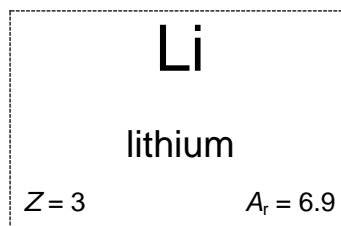
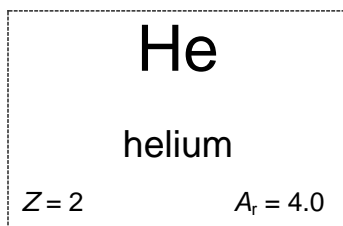
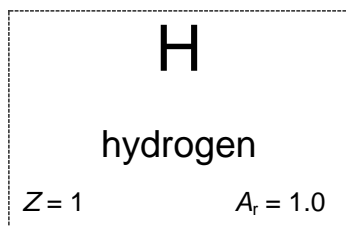
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# AS LEVEL CHEMISTRY B (SALTERS)

## Cards template



# AS LEVEL **CHEMISTRY B (SALTERS)**

**K**

potassium

$Z = 19$

$A_r = 39.1$

**Ca**

calcium

$Z = 20$

$A_r = 40.1$

**Br**

bromine

$Z = 35$

$A_r = 79.9$

**Rb**

rubidium

$Z = 37$

$A_r = 85.5$

**Sr**

strontium

$Z = 38$

$A_r = 87.6$

**I**

iodine

$Z = 53$

$A_r = 126.9$

