

Field Sciences**Review of *Chemistry* Level 1 achievement standard AS90933 (Chemistry 1.4)****Achievement standard**

| Domain | ID | Subject reference |
|-----------|-------|-------------------|
| Chemistry | 90933 | Chemistry 1.4 |

The Ministry of Education has completed an early review of the achievement standard listed above.

New Registration date **November 2011**

Date new versions published **November 2011**

Planned review date **December 2014**

Summary of review and consultation process

NZQA's National Assessment Facilitator requested that AS90933 (Chemistry 1.4) be amended to include nitrogen and sulfur dioxide in Explanatory Note (EN) 5.

The opportunity was also taken to add **K** and **I** to the list of selected elements in EN 6. The rationale for this was to allow trends to be discussed down a group with respect to reactivity. Two elements down a group do not represent a trend, whereas three elements do. Adding these two elements will help the examination setting team to produce a variety of questions over several years.

Standards Writing Group members were consulted about, and endorsed, the changes.

Main changes resulting from the review (highlighted in blue)

- EN 5 was amended as follows.

Aspects of elements will be selected from:

- atomic structure and the organisation of the periodic table (a periodic table will be provided)
 - electron arrangement (limited to the first 20 elements)
 - trend down a group (similarity of reaction, reactivity)
 - trend across a period (position of metals and non-metals).
- properties of metals, their reactivity and uses:
 - activity series
 - alloys.
- properties and uses of non-metals and selected compounds:
 - sulfur, aqueous chlorine, allotropes of carbon and oxygen (ozone), [nitrogen](#)
 - selected compounds include – sulfuric acid, ammonia, [sulfur dioxide](#).

- EN 6 was amended as follows.

Selected elements are limited to – [K](#), Na, Li, Mg, Ca, Al, Cu, Fe, Zn, Pb, Ag, C, N, O, S, Cl, Br, [I](#).

Review Categories and changes to classification, title, level, and credits

Where a new or a new version of an externally assessed achievement standard is registered, the following designation appears after the title **[Externally Assessed]**.

| Key to review category | |
|-------------------------------|---|
| A | Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number |
| B | Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number |
| C | Major changes that necessitate the registration of a replacement achievement standard with a new ID |
| D | Achievement standard will expire and not be replaced |

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| The last date for assessment of the superseded version of this externally assessed achievement standard (categorised as category B) is end of | December 2011 |
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Sciences > Science > Chemistry

| ID | Ref | Title | Level | Credit | Review Category |
|-----------|------------|---|--------------|---------------|------------------------|
| 90933 | 1.4 | Demonstrate understanding of aspects of selected elements [Externally Assessed] | 1 | 4 | B |