

Title	Use and maintain a light microscope		
Level	4	Credits	2

Purpose	People credited with this unit standard are able to: describe light microscopes; select, operate, and maintain a microscope; and determine specimen size by measuring under a microscope.
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Classification	Science > Science - Core
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria**Outcome 1**

Describe light microscopes.

Performance criteria

1.1 Light microscopes are described in terms of their limitations and applications.

Range compound, stereoscopic.

1.2 Microscope components are described in terms of their function.

Range stage, light, eye piece, objective, diaphragm, condenser, coarse adjustment, fine adjustment.

Outcome 2

Select, operate, and maintain a microscope.

Range stereoscopic including zoom, compound.

Performance criteria

2.1 Selected microscope allows required specimen magnification to be met.

2.2 Microscope is set up to prevent damage to microscope and specimen in accordance with laboratory procedures.

- 2.3 Components and focus are adjusted for optimum resolution and magnification of specimen.
- 2.4 Microscope is maintained in a manner that will prevent damage in accordance with manufacturer's instructions.

Range cleaning, moving, storing.

Outcome 3

Determine specimen size by measuring under a microscope.

Performance criteria

- 3.1 Specimen is orientated using stage controls to allow measurements to be taken.
- 3.2 Record of measurements is consistent with the specimen's dimensions.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 September 1996	31 December 2014
Review	2	24 February 1998	31 December 2014
Review	3	23 November 1999	31 December 2014
Review	4	17 September 2010	31 December 2025
Rollover	5	27 January 2015	31 December 2025
Review	6	27 September 2018	31 December 2025
Review	7	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference

0113

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.