

# Algebraic Structures II

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This is a second module in algebraic structures, covering group theory. There will be abstract thinking and proofs but also an emphasis on examples. The module includes the basics of group actions, finite p-groups, Sylow theorems and their applications, and the Jordan-Hölder theorem. Some of the ideas in group theory are parallel to those first encountered for rings in Algebraic Structures I.

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1.

Cameron, Peter J. Introduction to algebra [Internet]. 2nd ed. Vol. Oxford mathematics. New York: Oxford University Press; 2008. Available from: <http://ezproxy.library.qmul.ac.uk/login?url=http://www.vlebooks.com/vleweb/product/openreader?id=QMUL&isbn=9780191566226&uid=^u>

2.

Ledermann, Walter, Weir, Alan J. Introduction to group theory. 2nd ed. Vol. Longman mathematics series. Harlow: Longman; 1996.