

Objective: To understand and use powers and roots



Met

Partially
Met

Not Met

Work on the
following sections:

Column 1

Column 2

Extension

Column 1	Column 2
Without using a calculator work out the following: a) 9^2 b) 6^3 c) 2^4 d) 8^3	Without using a calculator work out the following: a) -2^2 b) -3^3 c) -1^4 d) -5^3
Without using a calculator work out the following: a) $\sqrt{169}$ b) $\sqrt[3]{1\,000}$ c) $\sqrt[5]{32}$ d) $\sqrt[3]{27}$	Without using a calculator work out the following: a) $\sqrt[3]{-1}$ b) $\sqrt[3]{64}$ c) $\sqrt[5]{-32}$ d) $\sqrt[3]{-729}$
Extension: Explain why squaring a number always produces a positive outcome but cubing a number does not always produce a positive outcome.	