NZQA

NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

Level 1 Physics, 2014

2.00 pm Tuesday 25 November 2014

RESOURCE SHEET
for 90937, 90938, and 90939

Refer to this sheet to answer the questions in your Question and Answer Booklets.

Check that this sheet is printed on the back.

YOU MAY KEEP THIS SHEET AT THE END OF THE EXAMINATION.

You may find the following formulae useful.

90937 Demonstrate understanding of aspects of electricity and magnetism

$$V = IR \qquad P = IV \qquad P = \frac{E}{t} \qquad R_{\text{T}} = R_1 + R_2 + ...$$

$$B = \frac{kI}{d} \qquad\qquad k = 2.0 \times 10^{-7} \text{ T m A}^{-1}$$

90938 Demonstrate understanding of aspects of wave behaviour

$$v = \frac{d}{t} \qquad v = f\lambda \qquad f = \frac{1}{T}$$

90939 Demonstrate understanding of aspects of heat

$$Q = mc\Delta T \qquad Q = mL \qquad P = \frac{E}{t}$$