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Resistance of a wire

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These downloadable resources investigate the electrical resistance of wire.

The resources detail a student practical activity that looks at the factors that determine electrical resistance in a wire.

The independent variables of length and cross-sectional area are investigated for nichrome wire.

Graphs can be drawn to confirm the relationship of these variables to the resistance, and the concept of resistivity is introduced and explained.

Sample answers are provided along with a sample Excel spreadsheet of data tables and graphs.

Australian Curriculum v9 Codes: AC9S9U04 (Year 9)

Tags:

electricity

resistance

resistivity

graphing

File:

Resistance of a wire - student worksheet

Resistance of a wire - sample answers

Resistance of a wire - sample data and graphs

Source Category:

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Resistance of aswire ta.edu.au/httpdocs/sites/assist.asta.edu.au/files/styles/desktop_resource_details_view/public/Resistance%20of%20a%20wire



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Electrical conductivity

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