



Interactive Example Candidate Responses

Paper 3 (May / June 2016), Question 7

Cambridge IGCSE™
Physics 0625



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7 Fig. 7.1 shows equipment used to demonstrate thermal expansion.

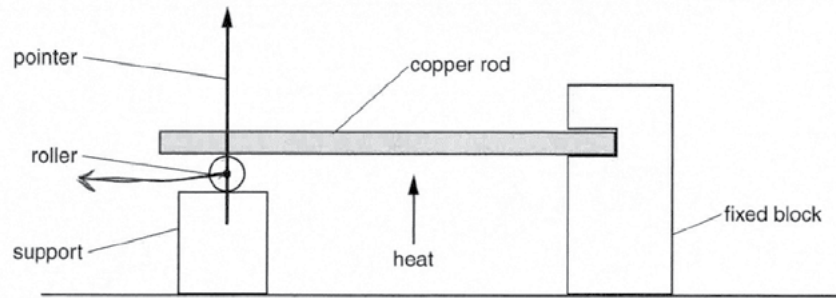


Fig. 7.1

(a) The copper rod is heated and expands. It turns the roller and moves the pointer.

On Fig. 7.1, draw the new position of the pointer.

[1]

(b) As the rod is heated, some of its properties change.

Identify how each property changes. Place **one** tick in each row of the table.

property of rod	decreases	increases	stays the same
volume		✓	
mass			✓
density	✓		

[3]

(c) Suggest **one** disadvantage of thermal expansion.

It is dangerous because it takes long to cool down. [1]

[Total: 5]

Your
Mark

7(a)

7(b)

7(c)

Q7 Mark scheme

(a)	to the left OR anticlockwise
(b)	row 1 – increases row 2 – stays the same row 3 – decreases
(c)	electric cables lower to ground OR telephone lines in summer OR buckling tracks

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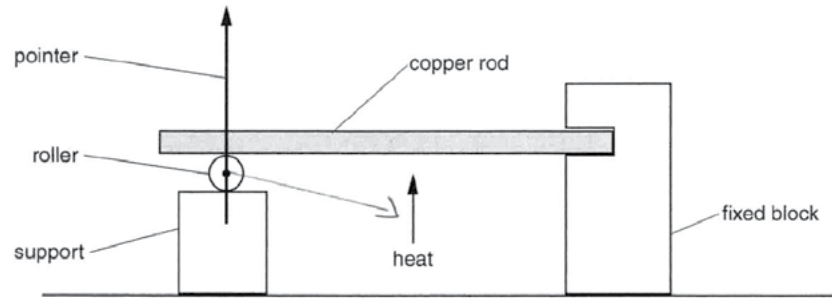


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(c) Suggest **one** disadvantage of thermal expansion.

Because of thermal expansion metals can melt
and ~~run~~ come out of the place that they're
fixed into. e.g. A fixed block. [Total: 5]

Your
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7(b)

7(c)

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