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|   |     |               |                                                                                                                                                                                                                                                  |           |
|---|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1 | (a) | (i)           | absorb                                                                                                                                                                                                                                           | 1         |
|   |     | (ii)          | more                                                                                                                                                                                                                                             | 1         |
|   | (b) | (i)           | conduction                                                                                                                                                                                                                                       | 1         |
|   |     | (ii)          | colour (of cube)<br><i>allow colour (of box)</i>                                                                                                                                                                                                 | 1         |
|   |     | (iii)         | Cube Y<br><i>all three in correct order for 2 marks</i><br>Cube X<br>Cube Z<br><i>one or two correct for 1 mark</i><br><i>allow grey for X</i><br><i>allow white for Y</i><br><i>allow black for Z</i>                                           | 2         |
|   |     | (iv)          | results can be compared<br><i>accept start temperature affects rate of energy transfer</i><br><i>or start temperature affects how quickly the cube cools down</i><br><i>ignore fair test / reliability / accuracy / control variable / valid</i> | 1         |
|   |     | (v)           | control (variable)<br><i>allow controls / controlled</i>                                                                                                                                                                                         | 1         |
|   |     |               |                                                                                                                                                                                                                                                  | [8 marks] |
| 2 | (a) | 750           | <i>allow 1 mark for correct substitution, ie <math>75 \times 10</math> provided no subsequent step shown</i>                                                                                                                                     | 2         |
|   |     | newton(s) / N | <i>do not accept n</i>                                                                                                                                                                                                                           | 1         |

# Gcse Physics Isa On Reflection Paper 2

**Michael Brown**



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