

Gcse Physics B F

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AQA GCSE (9-1) Physics Revision - PMT $F = BIL$ This defines flux density, B . We can measure F using the current balance. If the current cuts across the magnetic field at the angle θ then the component the current across the field is $I \sin \theta$ and therefore $F = B I L \sin \theta$. θ is the angle the current makes with the magnetic field.

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GCSE Physics B - Revision Science Motor effect of an electric current, electric motor, loudspeaker, Fleming's left-hand rule, $F = BIL$ gcse physics 12. The size of the force on the conductor depends

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on: The magnetic flux density (B) - the closer together the lines of force, the greater the field strength, the greater the resulting force.

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GCSE. Physics (Single Science) Physics is the study of energy, forces, mechanics, waves, and the structure of atoms and the physical universe. ... Physics is the study of energy, forces, mechanics ...

GCSE Physics (Single Science) - BBC Bitesize

Forces may change the shape of an object. An object, such as a spring, stores elastic potential energy when stretched or squashed. When an object, such as a spring, is stretched, the increased ...

Force on a spring - Hooke's law - CCEA - GCSE Physics ...

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B Unit 2 Modules P4, P5, P6 Specimen Mark Scheme 1 hour

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force = magnetic flux density \times current \times length. $[F = B \cdot I \cdot l]$ This is when: F is force in newtons (N) B is magnetic flux density (magnetic field strength) in tesla (T) I is current in amperes ...

The motor effect - Higher - Electromagnets - AQA - GCSE ...

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AQA GCSE Physics Past Papers - Revision Science

OCR (9-1) 21st Century Science GCSE Physics B Chapters P4-6 (Chapters P4-6, GCSE Combined Science B physics) TOP OF PAGE and sub-index. IGCSE GCSE revision notes gcse physics revision KS4 physics Science notes on gcse physics revision GCSE physics guide notes on gcse physics revision for schools colleges academies science course tutors images ...

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mark scheme - gcse combined science: t riology - 8464/b/1f - specimen (set 2) Step 1: Determine a level Start at the lowest level of the mark scheme and use it as a ladder to see whether the answer meets

COMBINED SCIENCE: TRILOGY 8464/B/1F

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$F = BIL$, $B = F/IL$, $B = 5.0/(3.0 \times 5.0/100) = 3.3 \text{ T}$. Q3 What current must flow through a 1.5 m wire for it to experience at 90° a force of 9.0 N in a magnetic flux density of 3.0 T? $F = BIL$, $I = F/BL$, $I = 9.0/(3.0 \times 1.5) = 9.0/4.5 = 2.0 \text{ A}$

motor effect of an electric current Fleming's left-hand ...

GCSE Physics Electricity learning resources for adults, children, parents and teachers.

Electricity - GCSE Physics Revision - AQA - BBC Bitesize

Can't get going when it comes to the motor effect? We explain it and the $F = BIL$ equation in this helpful video from five minute physics. We don't just read o...

GCSE Science: Physics: Motor effect and $F = BIL$ - YouTube

(b) $F = k \times e$ OR $k = F \div e$ OR k is the slope or gradient Correct numbers from table or graph to calculate k Correct conversion from cm to m (to give k) 3 1.2 2.1 2.1 Question asks candidates to show that the spring constant is 35 N / m so DO NOT credit an answer of 35 with no workings ALLOW evidence of gradient on graph

GCSE (9-1) Combined Science A (Gateway)

GCSE Physics (8463) 1 pressure due to a column of liquid = height of column \times density of liquid

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× gravitational field strength (g) $p = h \rho g$. 2 (final velocity)² - (initial velocity)² = 2 acceleration distance
 $v^2 - u^2 = 2a s$. 3 force = change in momentum / time taken. $F = m \Delta v / \Delta t$. 4 elastic potential energy = 0.5 spring constant (extension)² $E_e = \frac{1}{2} k x^2$.

Physics Equations Sheet GCSE Physics (8463)

GCSE Physics section of the award-winning tutorials, tips and revision advice website, including physics coursework and exams for students, parents and teachers.