

Conceptual Physics Lab Manual Answers

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laboratory experiments can be a challenge for teachers in small schools or home schools this manual and the kit designed to accompany it are an effort to help solve this problem the hands on laboratory exercises have been designed with two principle goals in mind 1 educational challenge and 2 convenience for the teacher every experiment clearly teaches a scientific principle they cover a number of topics usually taught at the 11th or 12th grade level the equipment has been chosen or in some cases developed by the authors to produce successful results and give the student a real learning experience this kit is only intended to cover the laboratory portion of a high school physics course the rest of the course would be covered in a standard text lab experiments introduction a scientific investigation introduction b scientific analysis 1 a recording timer the acceleration of gravity 2 newton s second law 3 the sum of vectors 4 acceleration on an inclined plane 5 potential and kinetic energy 6 coefficient of friction 7 work and power 8 projectile motion 9 impulse and momentum 10 conservation of momentum 11 conservation of energy and momentum 12 mechanical advantage of a simple machine 13 hooke s law a spring constant 14 centripetal force 15 a

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