

# Labpaq Lab Manual Physics

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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 projective 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 pendulum 16 the speed of sound in air 17 specific heat of aluminum 18 latent heat of fusion 19 curved mirrors 20 refraction 21 lenses 22 wavelength of a laser beam 23 wavelengths of the visible spectrum 24 laser measurements 25 static electricity 26 an electronic breadboard 27 ohm s law 28 capacitors 29 diodes 30 transistors 31 magnetic fields 32 electric magnets electric motor

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