

Name: _____

period _____ date _____

Lab #19: Projectile Motion PhET Simulations



Procedure:

- Google search "PhET Projectiles"
- Run the PhET Simulations → Play → Motion → Projectile Motion
- **Run** button
- The cannon can be moved to add or remove initial Y position and X position.
- The cannon can be pivoted to change the firing angle, θ .
- The tape measure can be moved and dragged to measure range to target.
- To fire the cannon, **Fire** button.
- To erase the projectile's path, **Erase** button.

Effect of Angle on a projectile

Be sure **air resistance is off** and spend some time firing various projectiles.

- Set the initial speed to a value between 10-15m/s. Choose your favorite projectile.
- Find the range of the projectile at various angles.

Angle	Range (m)	Time of flight (s)
30		
40		
50		
60		
70		
80		
90		

Hitting a target by guessing:

- Measure the distance from the cannon to the target using the tape measure.
- Move the target to 21.0 m from the cannon.
- You only have 3 attempts to hit the target by changing the firing angle and initial velocity.

Guess:

1. Angle _____ initial V = _____ hit target (y/n): _____
2. Angle _____ initial V = _____ hit target (y/n): _____
3. Angle _____ initial V = _____ hit target (y/n): _____

Answer Key To Projectile Simulation Lab Activity

M Lipman



Answer Key To Projectile Simulation Lab Activity:

30th International Symposium on Shock Waves 2 Gabi Ben-Dor, Oren Sadot, Ozer Igra, 2017-08-01 These proceedings collect the papers presented at the 30th International Symposium on Shock Waves ISSW30 which was held in Tel Aviv Israel from July 19 to July 24 2015 The Symposium was organized by Ortra Ltd The ISSW30 focused on the state of knowledge of the following areas Nozzle Flow Supersonic and Hypersonic Flows with Shocks Supersonic Jets Chemical Kinetics Chemical Reacting Flows Detonation Combustion Ignition Shock Wave Reflection and Interaction Shock Wave Interaction with Obstacles Shock Wave Interaction with Porous Media Shock Wave Interaction with Granular Media Shock Wave Interaction with Dusty Media Plasma Magnetohydrodynamics Re entry to Earth Atmosphere Shock Waves in Rarefied Gases Shock Waves in Condensed Matter Solids and Liquids Shock Waves in Dense Gases Shock Wave Focusing Richtmyer Meshkov Instability Shock Boundary Layer Interaction Multiphase Flow Blast Waves Facilities Flow Visualization and Numerical Methods The two volumes serve as a reference for the participants of the ISSW30 and anyone interested in these fields

The Shock and Vibration Digest ,1988 **Energy Research Abstracts** ,1993 Scientific and Technical Aerospace Reports ,1995-08 *Resources in Education* ,1986 **Psychology, Pedagogy, and Assessment in Serious Games** Connolly, Thomas M., Hainey, Thomas, Boyle, Elizabeth, Baxter, Gavin, Moreno-Ger, Pablo, 2013-11-30 This book addresses issues the potential of games to support learning and change behaviour offering empirical evidence pertaining to the effectiveness of Serious Games in the key areas of psychology pedagogy and assessment ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977-05 **Use of Services for Family Planning and Infertility, United States, 1982** Gerry E. Hendershot, Marjorie C. Horn, William D. Mosher, 1988 The 1982 statistics on the use of family planning and infertility services presented in this report are preliminary results from Cycle III of the National Survey of Family Growth NSFG conducted by the National Center for Health Statistics Data were collected through personal interviews with a multistage area probability sample of 7969 women aged 15 44 A detailed series of questions was asked to obtain relatively complete estimates of the extent and type of family planning services received Statistics on family planning services are limited to women who were able to conceive 3 years before the interview date Overall 79% of currently married nonsterile women reported using some type of family planning service during the previous 3 years There were no statistically significant differences between white 79% black 75% or Hispanic 77% wives or between the 2 income groups The 1982 survey questions were more comprehensive than those of earlier cycles of the survey The annual rate of visits for family planning services in 1982 was 1077 visits 1000 women Teenagers had the highest annual visit rate 1581 1000 of any age group for all sources of family planning services combined Visit rates declined sharply with age from 1447 at ages 15 24 to 479 at ages 35 44 Similar declines with age also were found in the visit rates for white and black women separately Nevertheless the annual visit rate for black women 1334 1000 was significantly higher than that for white

women 1033 The highest overall visit rate was for black women 15 19 years of age 1867 1000 Nearly 2 3 of all family planning visits were to private medical sources Teenagers of all races had higher family planning service visit rates to clinics than to private medical sources as did black women age 15 24 White women age 20 and older had higher visit rates to private medical services than to clinics Never married women had higher visit rates to clinics than currently or formerly married women Data were also collected in 1982 on use of medical services for infertility by women who had difficulty in conceiving or carrying a pregnancy to term About 1 million ever married women had 1 or more infertility visits in the 12 months before the interview During the 3 years before interview about 1 9 million women had infertility visits For all ever married women as well as for white and black women separately infertility services were more likely to be secured from private medical sources than from clinics The survey design reliability of the estimates and the terms used are explained in the technical notes [ERDA Energy Research Abstracts](#) United States. Energy Research and Development Administration. Technical Information Center,1977 **Technology for Large Space Systems** ,1989 **Government Reports Announcements & Index** ,1993 [Applied Mechanics Reviews](#) ,1989 **PC Mag** ,1983-02 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **The Software Encyclopedia** ,1988 **Current Index to Journals in Education** ,2002 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977-06-15 *Educational Resources for Microcomputers* ,1986 [International Aerospace Abstracts](#) ,1999 [Bulletin of the Atomic Scientists](#) ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **INIS Atomindex** ,1988

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