

## Forces, Magnitude & Direction

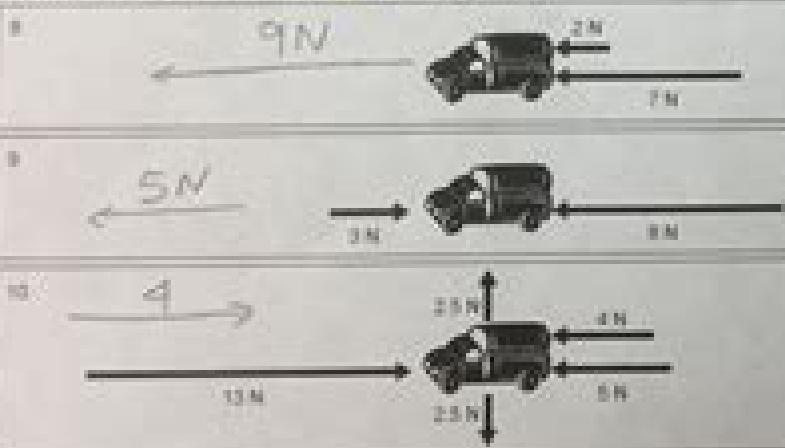
Directions: Fill in the correct answer.

1. A FORCE is a push or a pull.
2. The NET FORCE is the combination of all of the forces acting on an object.
3. The unit used to measure force is the NEWTON.
4. When two or more forces act on an object in the same direction, the forces balance (combine to make zero).
5. When two forces acting in opposite directions combine, the net force is in the same direction as the larger (or positive) force.

Directions: Give the magnitude and direction of the forces shown below.



Directions: Draw and label the net force on each diagram below.



### Identifying Forces

Identify the forces in each of the following situations.  
Then describe the effect of the forces.



Push - the ball rolls  
to the right.  
Friction - the ball  
rolls to the left.



Push - two people  
push the box.  
Friction - the box  
is pulled to the left.



Push - the boy pushes  
the chair.  
Friction - the boy  
pushes the chair  
to the right.



PUSH - magnet pushes  
on the nail.  
Friction - magnet  
pushes the nail  
to the right.



PUSH - hand pushes  
the hammer.  
Friction - hammer  
pushes the nail  
to the right.



PUSH - ball hits  
the wall.  
Friction - ball is  
pulled back  
by gravity.



PUSH - for motion.  
Friction - the wheel  
turns on the  
pavement.  
Friction - the  
wheel turns - the  
bicycle moves  
forward.  
Friction - the  
bicycle turns  
around.



PUSH - leaf falls  
to the ground.  
Friction - leaf  
falls to the  
ground.

# Science Review Forces Section Answer Key

**Padhraic Smyth**

## Science Review Forces Section Answer Key:

**United States Code: Title 10: Armed forces [sections] 1431-7921**, 2013 Preface 2012 edition The United States Code is the official codification of the general and permanent laws of the United States The Code was first published in 1926 and a new edition of the code has been published every six years since 1934 The 2012 edition of the Code incorporates laws enacted through the One Hundred Twelfth Congress Second session the last of which was signed by the President on January 15 2013 It does not include laws of the One Hundred Thirteenth Congress First session enacted between January 3 2013 the date it convened and January 15 2013 By statutory authority this edition may be cited U S C 2012 ed As adopted in 1926 the Code established *prima facie* the general and permanent laws of the United States The underlying statutes reprinted in the Code remained in effect and controlled over the Code in case of any discrepancy In 1947 Congress began enacting individual titles of the Code into positive law When a title is enacted into positive law the underlying statutes are repealed and the title then becomes legal evidence of the law Currently 26 of the 51 titles in the Code have been so enacted These are identified in the table of titles near the beginning of each volume The Law Revision Counsel of the House of Representatives continues to prepare legislation pursuant to 2 USC 285b to enact the remainder of the Code on a title by title basis into positive law The 2012 edition of the Code was prepared and published under the supervision of Ralph V Seep Law Revision Counsel Grateful acknowledgment is made of the contributions by all who helped in this work particularly the staffs of the Office of the Law Revision Counsel and the Government Printing Office John A Boehner Speaker of the House of Representatives Washington D C January 15 2013 Page VII

### **Discovering Science Through Inquiry: Forces and Motion Kit** Kelli Allen, 2009-11-10

The Discovering Science through Inquiry series provides teachers and students of grades 3 8 with direction for hands on science exploration around particular science topics and focuses The series follows the 5E model engage explore explain elaborate evaluate The Forces and Motion kit provides a complete inquiry model to explore the laws of motion through supported investigation Watch as students design a safe landing parachute to observe how the forces of deceleration work on parachutes Forces and Motion kit includes 16 Inquiry Cards in print and digital formats Teacher s Guide Inquiry Handbook Each kit includes a single copy additional copies can be ordered Digital resources include PDFs of activities and additional teacher resources including images and assessment tools leveled background pages for students and video clips to support both students and teachers

**United States Code** United States, 2001 *Federal Register*, 1977 **The American Law Review**, 1890 *Boston Journal of Chemistry and Popular Science Review*, 1883

**U.S. Government Research & Development Reports**, 1970 **The Saturday Review of Politics, Literature, Science and Art**, 1871 *American Law Review*, 1890 *Air Force Research Resumés*, 1968 *the scientific review and scientific and literary review*, 1883

*Homiletic Review*, 1899 **The Electrical Review**, 1884 *The Homiletic Review*, 1899 *The Chinese Social and Political Science Review*, 1924 Has annual indexes **Digest; Review of Reviews Incorporating Literary Digest**, 1892

**The Cambridge Review**, 1885 Vols 1-26 include a supplement The University pulpit vols 1-26 no 1-661 which has separate pagination but is indexed in the main vol    **Telegraphic Journal and Monthly Illustrated Review of Electrical Science**, 1872    Saturday Review of Politics, Literature, Science and Art, 1871    **Government Reports Announcements**, 1974-04-05

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