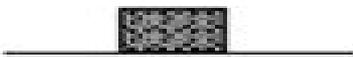
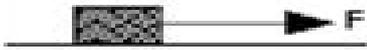
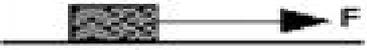
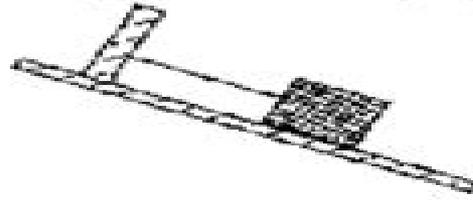
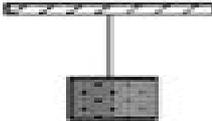
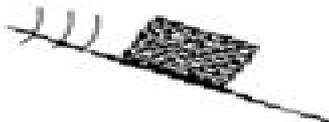


Force Diagrams: Name _____

Period _____

- Identify all of the forces that are acting on the following objects; F_g , F_n , F_t , F_{app} , F_s , ...
- Draw a Force diagram that includes arrows for each force acting on the object and the resultant of all of the forces.

FORCE DIAGRAM	FORCE DIAGRAM
<p>1. An object lies motionless.</p> 	<p>6. An object slows down while moving across a surface due to friction.</p> 
<p>2. The object is pulled by a force parallel to the surface (no friction).</p> 	<p>7. An object accelerates as it slides down a frictionless incline.</p> 
<p>3. The object is pulled by a force parallel to the surface (with friction).</p> 	<p>8. An object is held motionless by a rope on an incline.</p> 
<p>4. An object is suspended from the ceiling.</p> 	<p>9. The object is motionless.</p> 
<p>5. Object slides at constant speed across a surface without friction.</p> 	<p>10. An object slides down an incline at a constant speed.</p> 

Force Diagram Practice Problems

**John Butler Johnson, Charles Walter
Bryan, Frederick Eugene Turneure**

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Engineering Statics M. Rashad Islam, M. Abdullah Al Faruque, Bahar Zoghi, Sylvester A. Kalevela, 2020-11-05 Engineering Statics presents the cutting edge topics in engineering statics focusing on practical applications knowledge with numerous real world examples practice problems and case studies throughout It covers theory concisely and uses plain language and coverage that can be completed in a one semester course It also covers the related concepts required to take the Fundamentals of Engineering FE exam Features Written in plain language with numerous realistic step by step examples Covers topics required to understand and prepare for the Fundamentals of Engineering FE exam Includes practical case studies concise theory and numerous solved practice problems Engineering Statics is suitable for undergraduate students in civil and mechanical engineering courses as well as those in Engineering Technology and Applied courses This book includes material suitable for first and second year undergraduate courses as well as more senior students The authors believe that this text will be very helpful for students to succeed in their degree programs and professional careers

A-level Physics Challenging Practice Questions (Yellowreef) Thomas Bond, Chris Hughes, 2013-11-14 first to completely cover all question types since 1996 with answer keys first to expose all trick questions provides full set of step by step solution approaches available separately provides an easy path to final A distinction grade Complete edition and concise edition eBooks available

Statics and Strength of Materials for Construction, Engineering Technology, and Architecture Mohamed Askar, M. Rashad Islam, 2024-04-26 Statics and Strength of Materials for Construction Engineering Technology and Architecture Theory Analysis and Application provides students and industry professionals with the necessary statics and strength of materials background for more innovative approaches to particular fields of engineering technology construction engineering and management civil engineering and architectural technology It presents an introduction to statics a review of algebra and trigonometry concepts of vectors a classification of building structural systems an overview of advanced topics in statics and strength of materials and frameworks of real world application projects This book contains 19 chapters and discusses several topics related to statics and strength of materials such as coplanar force systems the equilibrium of particle and rigid bodies design loads beam and frame reactions trusses arches cables and pulleys space force systems centroid of areas moment of inertia friction properties of materials axial

deformation bending and shear stress torsional stress combined loading stress transformation deflection and stress in columns Each chapter includes an Instructor s Solution Manual and Guide with instructional materials and comprehensive explanations of the related practice problems critical thinking exercises and application projects

The Theory and Practice of Modern Framed Structures John Butler Johnson, Charles Walter Bryan, Frederick Eugene Turneaure, 1910

Mechanics and Radioactivity Mark Ellse, Chris Honeywill, 2003 The revised edition of the highly successful Nelson Advanced Science Physics series comprises lively high quality student books for AS and A2 Level Physics Nelson Thornes and Edexcel have listened carefully to customer feedback to bring the best most accurate and up to date materials to the classroom This is the only fully endorsed Advanced Level modular Edexcel specific course and Mechanics and Radioactivity provides full content coverage of Unit 1 of the AS and A2 Level specifications

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