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# Physics Study Guide

## Answers Chapter 11

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dimensions. The book  
describes the concepts  
of scalars and vectors;  
the rules for  
performing  
mathematical  
operations on vector  
quantities; the  
concepts of force,  
torque, center of

gravity, and types of equilibrium. The text also describes the concepts and quantities required to describe motion; the linear kinematical relationships to describe motion; as well as the interrelationship between forces, which effect motion, and the motion itself. The concepts of mechanical work, kinetic energy and power; conservative and nonconservative forces; and the conservation of linear momentum are also considered. The book further tackles the concept of the center of mass; the rotational analogs of translational dynamics; and the mechanics of rotating systems. The text then demonstrates the motion of a rigid body;

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