Name _____ Date _____ Class _____

Key Concept Builder LESSON 2

Newton's First Law

Key Concept How is motion related to balanced and unbalanced forces?

Balanced forces produce a lack of motion or a steady velocity. Unbalanced forces put a stationary object into motion (produce an acceleration) or change the velocity of a moving object.

Directions: *On the line before each item, write* B *if it represents balanced forces or* U *if it represents unbalanced forces.*

_____ **1.** a book lying on a table

_____ **2.** an airplane cruising in level flight

_____ **3.** a rock falling from a cliff

_____ **4.** a bridge collapsing in an earthquake

_____ **5.** a train rounding a curve at a steady speed

_____ **6.** a man sitting on a park bench

_____ **7.** the space shuttle taking off

_____ **8.** a satellite in orbit

_____ **9.** a car maintaining a constant speed on a straight road

_____ **10.** an airplane landing

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