Name: _____   Date: _____   Period: _____

Chapters 4-5 (Dynamics, Forces, Newton's Laws)

Homework Check A (collected by Fall Break - Oct 10)

Reading

Please read the following on your own in the OpenStax textbook by the dates given. It will give good context for class discussion. Check off when you have completed them.

◯ 4.1 Development of the Force Concept .... Fri, Sept 26

◯ 4.2 Newton's First Law: Inertia .... Mon, Sept 29

◯ 4.3 Newton's Second Law: Concept of a System .... Tue, Sept 30

◯ 4.4 Newton's Third Law: Symmetry in Forces .... Tue, Sept 30

◯ 4.5 Normal, Tension, and Other Forces .... Fri, Oct 3

Problems and Conceptual Question

Get stamps from your instructor as you complete each of the following problems. The conceptual questions (CQ) require at least one sentence of explanation.

STAMPS WILL NOT BE GIVEN IF WORK IS NOT SHOWN ON A SEPARATE SHEET OF PAPER

Forces & Newton's Laws (5 POINTS) P #1-2 CQ #2-6,8,10,15,18,A,B	**Single Body** (5 POINTS) P #4-7 CQ #23
Multi Body (5 POINTS) P #9-14 **HW Quiz on Tue, Oct 7**.	

Equations

$$\Sigma \vec{F} = m\vec{a} \qquad\qquad\qquad\qquad w = mg$$

Chapters 4-5 (Dynamics, Forces, Newton's Laws)

Homework Check B (collected on Test Day - Tue, Nov 4)

Reading

Please read the following on your own in the OpenStax textbook by the dates given. It will give good context for class discussion. Check off when you have completed them.

Problems and Conceptual Question

Get stamps from your instructor as you complete each of the following problems. The conceptual questions (CQ) require at least one sentence of explanation.

Friction (5 POINTS) P #14-16	**Forces at an Angle** (5 POINTS) P #17-18 CQ C-D

Bonus Problems

P #4	P #9	P #20	P #21

Homework will be accepted for full credit until the test. Homework turned in after the test will be accepted for half credit until the next test. *Please remember that you will not be eligible to complete test corrections if you do not turn in your homework.*

Equations

$$\Sigma \vec{F} = m\vec{a} \qquad\qquad w = mg \qquad\qquad f_s \leq \mu_s N \qquad\qquad f_k = \mu_k N$$