

Name: \_\_\_\_\_ Period: \_\_\_\_\_

## Unit 3 Forces

### Objectives:

Analyze and apply Newton's 2<sup>nd</sup> and 3<sup>rd</sup> laws of motion.

Describe and explain how gravitational forces affect mass.

### General Instructions:

There are two layers to complete before each exam. Each assignment in a layer has a point value. You must earn the required number of points for each layer by the due date. Any additional assignments completed will count as extra credit.

For book assignments (questions and labs) you must write out the questions as well as answer them. For Layer B you will be allowed to work with a partner, but you each must complete your own work on your own paper to earn credit.

### Layer C: Basic Understanding 40 points. Due date: Friday 21<sup>st</sup>

\_\_\_10 pts 1. Take Mr. Insua's lecture notes.

\_\_\_10 pts 2. Complete with the book the Forces Note-taking worksheet (white)

\_\_\_10 pts 3. Define all of the vocabulary words on page 95. Do not do the matching activity. Define every word.

\_\_\_10 pts 4. Write out and answer the checking concepts questions #1-10 on page 96.

\_\_\_10 pts 5. Complete "Chapter Review" sheet (golden rod)

**Layer B: Application/Analysis 60 points. You must do at least 2 labs and 4 non-labs. Due date: Friday 21st**

- \_\_\_10 pts 1. Complete the activity entitled “Measuring the Effects of Air Resistance” on page 89. Do NOT hold the paper 2.5 m as instructed. Pick the tallest person in your group to stretch onto their tip-toes and use that height instead. Make sure you copy the data table and write out and answer the Conclude and Apply questions.
- \_\_\_10 pts 2. Complete the Study Guide entitled “Reinforcement” (green sheet)
- \_\_\_10 pts 3. Complete the minilab entitled “Comparing Friction” on page 71. Make sure you write out and answer the Analysis questions.
- \_\_\_10 pts 5. Write out and answer the Section Assessment (NOT Skill Building) questions on pages 74, 82, and 88.
- \_\_\_10 pts 6. Complete the lab entitled “Velocity and Momentum” (Blue Sheet). Remember to do all the trials and draw a neat graph that makes sense.
- \_\_\_10 pts 7. Complete “The Fun Continues” and “Fun with Math” worksheet. Show your work!!!

**Layer A: Evaluation**

**Unit 3 Exam Review Date: Monday 24<sup>th</sup>**

Complete the Study Guide “Direct Reading for Content Mastery” (pink sheet)

**Unit 3 Final Exam Date: Tuesday 25<sup>th</sup>**